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FIELD	GROUP	SUB-GROUP		

9 ABSTRACT (Continue on reverse if necessary and identify by block number)

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			22c OFFICE SYMBOL XOTD

Approved

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

RESEARCH PROPOSAL
QUARTERLY STATUS REPORT



July - September 1990

RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

October 1990

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INTRODUCTION

The Research Proposal Quarterly Status Report is published in March, June, September, and December by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR in the previous six months along with the action taken (Initiated, Declined, Withdrawn) on each report.

The report is divided into two parts. The Institution index lists proposals alphabetically by institution. This is followed by a more detailed listing by Directorate, and by Program Manager within the Directorate.

PURPOSE

This report is designed to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be considered as scientifically unacceptable; many declinations result from a lack of funds or as a result of special programmatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. The AFOSR is organized under the Air Force Systems Command. DCS/Technology.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from proposals received in response to the Broad Agency Announcement from scientists investigating problems involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance to science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, (e.d., college/university, company) at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposers request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

INITIATE - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH SCIENTIFIC STAFF DIRECTORY
BOLLING AIR FORCE BASE, DC 20332

CC/CD - OFFICE OF THE DIRECTOR

Dr Helmut W. Hellwig, Director
Col Arthur L. Pavel, Deputy Director

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Lt Col George Harritos (Acting Director)	4987	Dr William O. Berry (Director)	4278
Dr Mitat Birkan	4938	Dr Genevieve Haddad	5021
Dr Leonidas Sakeil	4935	Dr Alfred R. Freyly	5021
Dr Spencer Wu	6962	Lt Col Jan Cerveny	5021
Dr Julian Tishkoff	0465		
Dr James McMichael	4936		
Maj Steven Boyce	6963		
		<u>NM - DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES</u>	
		Dr Charles J. Holland (Director)	5025
		Dr Neal Glassman	5026
		Dr Marc Jacobs	5027
		Dr Arje Nachman	4939
		Dr Jon Sjogren	4940
		Dr Abraham Waksman	5028
		<u>NP - DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCE</u>	
		Col Jerry J. Perrizo (Director)	4904
		Dr Ralph Kelley	4908
		Dr Robert Barker	5011
		Dr Howard Schlossberg	4906
		Dr Henry R. Radoski	4906
		Lt Col James A. Lupo	4908
		<u>NE - DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES</u>	
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		Dr Alan Rosenstein (Dep Director)	4933
		Dr Liselotte Schioler	4933
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		Dr Alan Craig	4931
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		Capt Steve Suddarth	4931

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PART I

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
AEROJET-GENERAL CORP / PROPULSION DIV	BROWN	SCOTT	C	90-NC-280	A	BURGGRAF
AIR FORCE INSTITUTE OF TECHNOLOGY	BAUER	KENNETH	W	90-NM-429	A	GLASSMAN
ALABAMA A&M UNIVERSITY	TADROS	MAHASIN	S	90-NL-191	D	CERVENT
APPLIED ENERGY SCIENCES INC	LOGAN	JOSEPH	G	90-NM-419	D	NACHMAN
ARIZONA STATE UNIVERSITY	HOUSTON	SANDRA	L	90-NL-217	D	CERVENT
ARMY ARMAMENT R&D CBR/BALLISTICS RSCN LA	KRAJCINOVIC	DUSAN		90-NA-256	WU	
ARMY RESEARCH OFFICE	ADAMS	GEORGE	F	90-NC-265	A	BURGGRAF
BEER-SURION UNIVERSITY OF THE NEGEV	LUCAS	MARY ANN		90-NA-213	A	SAKELL
BROWN UNIVERSITY	MANN	DAVID		90-NA-216	D	TISHKOFF
CEDERAUHM	CEDERAUHM	GABRIEL		90-NA-234	D	BOYCE
GOTTLIEB	GOTTLIEB	DAVID		90-NM-411	A	NACHMAN
LAUANDY	LAUANDY	N.		90-NP-130	A	SCHLOSSBER
MORSE	MORSE	MICHAEL		90-NP-132	A	TANGNEY
PARADISO	PARADISO	J.		90-NR-436	A	NACHMAN
SYMONDS	SYMONDS	K.		90-NR-385	A	HOLLAND
CHANAY	CHANAY	H.		90-NA-223	A	SAKELL
HORNUNG	HORNUNG	G.		90-NA-214	A	MCMICHAEL
LEONARD	LEONARD	A.		90-NR-356	A	GLASSMAN
MCELIECE	MCELIECE	ROBERT		90-NP-129	A	SCHLOSSBER
YARIV	YARIV	AMNON		90-NA-253	A	SAKELL
CEZECI	CEZECI	TUNCER		90-NL-185	A	HADDAD
STANTON	STANTON	TONI		90-XO-04	A	CAVENDER
RADACK	RADACK	GERALD		90-NA-413	A	GLASSMAN
SALKIN	SALKIN	HARVEY		90-NL-201	D	HADDAD
ZIGMOND	ZIGMOND	RICHARD		90-NE-206	D	MITT
ALFANO	ALFANO	ROBERT		90-NE-207	A	CRAIG
STELSON	STELSON	ARTHUR		90-NL-226	A	CERVENT
WILCOX	WILCOX	WILLIAM		90-NC-312	A	HEDBERG
GOODING	GOODING	CHARLES		90-NL-223	A	CERVENT
WANG	WANG	TING		90-MA-252	A	MCMICHAEL
VAN TYNE	VAN TYNE	C.		90-NE-232	A	ROSENSTEIN
COTTON	COTTON	WILLIAM		90-NC-303	A	STOBIE
PAUTLER	PAUTLER	EUGENE		90-NL-195	A	CERVENT
DOORE	DOORE	AUBREY		90-NM-412	A	GLASSMAN
EISENTHAL	EISENTHAL	KENNETH		90-NC-250	A	HEDBERG
KARATZAS	KARATZAS	IOANNIS		90-NC-294	A	JACOBS
SAMINATHAN	SAMINATHAN	P.		90-NM-393	A	BURGGRAF
INGRAFFEA	INGRAFFEA	ANTHONY		90-NC-276	A	WU
MATTION	MATTION	JOHN	R	90-NA-255	A	BARKER
SVINSKY	SVINSKY	ARKADY	A	90-NP-134	A	NACHMAN
SACHDEV	SACHDEV	YESH	S	90-NM-423	A	HEDBERG
SINYONOFF	SINYONOFF	ROBERT	P	90-NC-246	A	TANGNEY
SEJAR	SEJAR	ISAAC	I	90-NL-192	A	POMRENKE
BJAJA	BJAJA	KRISHAN	K	90-NE-215	A	BURGGRAF
HEAVEN	HEAVEN	MICHAEL	C	90-NC-285	A	
ELISHAKOFF	ELISHAKOFF	ISAAC		90-NA-208	A	
FLORIDA ATLANTIC UNIVERSITY						

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

STATUS - A ACCEPTED, D DECLINED, W WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PR NAME
FLORIDA UNIV-COLL OF VETERINARY MEDICINE GENERAL ELECTRIC CO	BESCH LEIGH	EMERSON TERRY	L	90-XO-018	A	CAVENDER
GEORGE WASHINGTON UNIVERSITY	ABRAMSON	FRED	K	90-NC-307	A	HEDBERS
GEORGIA INSTITUTE OF TECH	ATLURI	SATAYA	P	90-NL-251	A	CERVENY
GEORGIA STATE UNIVERSITY	CATRAMBONE FERRAI WARDI	RICHARD ALDO YORAI	N	90-NA-225	A	HARTOTOS
GEORGIA TECH RESEARCH CORPORATION	ALBERS CROW, JR GOLE	H. ELLIOTT SIDNEY JAMES	A	90-NC-203	A	FREGLY
GEORGIA UNIV RESEARCH FOUNDATION INC	DALLAS	CHAM	E	90-NC-199	A	VU
HOUSTON AREA RESEARCH CENTER	PARGRAVE	JOHN	E	90-NC-261	A	GLASSMAN
HOWARD UNIVERSITY	PETERSON	RAYMOND	L	90-NL-243	A	BERRY
HURCULES AEROSPACE CO.	GARDINER	D	S	50-NC-275	A	CERVENY
JET RESEARCH INSTITUTE	SNELSON	ALAN	S	90-NC-270	A	BURGGRAF
IDAH0 UNIVERSITY	CRAWFORD FROES	RONALD F	L	90-NL-212	A	CERVENY
ILLINOIS INSTITUTE OF TECHNOLOGY	SHREEVE	JEAN NE	H	90-NE-216	A	ROSENSTEIN
INDIANA UNIVERSITY	VON WANDRUSZKA MARVASTI ORTOLEVA WATSON	RAY FAROKH PETER CHARLES	H	90-NC-252	A	HEDEBERG
INTERFACE FOUNDATION OF NORTH AMERICA	KETTERRING	J. R.	E	90-NC-222	A	CERVENY
IOWA STATE UNIV OF SCIENCE AND TECH	VERKADE	JOHN	G	90-NC-436	A	SJOGREN
JET PROPULSION LABORATORY	PINEDA	FERNANDO	J	90-NC-174	A	CERVENY
JOHNS HOPKINS UNIVERSITY	KAUFMAN KHURGIN	JOYCE JACOB	J	90-NC-172	A	TAMNEY
KENT STATE UNIVERSITY	OLTON	DAVID	S	90-NC-410	A	SJOGREN
LA JOLLA INSTITUTE	YANTIS	STEVEN	S	90-NC-283	A	HEDEBERG
LOUISIANA STATE UNIVERSITY	BECK	3. TERRY	E	90-NC-414	A	JACOBS
LOCKHEED MISSILES & SPACE CO INC	HESTERICK	SARBARA	E	90-NC-267	A	BURGGRAF
LOUGHBOROUGH UNIV OF TECHNOLOGY	JIANG	HONGXING	E	90-NE-218	A	CRAIG
MANITOBA UNIVERSITY	CAZANISS	STEPHEN	S	90-NL-190	A	FREGLY
MARSHALL UNIVERSITY	CARLSON	ROBERT	E	90-NL-181	A	CAVENDER
MASSACHUSETTS GENERAL HOSPITAL	HADDAD	ZIAID	E	90-XO-031	A	CERVENY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	ARELLA	JAGAN	E	90-NC-247	A	MACHMAN
MONASH UNIVERSITY	MAILHIOT	CHRISTIAN	E	90-NC-233	A	BURGGRAF
NEWCASTLE UNIVERSITY	EMMER	SUSAN	E	90-NC-226	A	ULRICH
NOVARTIS AG	PHILLIPS	NICHOLAS	E	90-NC-206	A	ULRICH
NOVARTIS AG	CHARALAMPOPOULOS	TRYFON	J	20-NC-425	A	TISHKOFF
NOVARTIS AG	STADLER	MICHAEL	A	90-NC-271	A	FREGLY
OAKLAND UNIVERSITY	JELL	RALPH	A	90-NC-272	A	HADDAD
PALESTINE STATE UNIVERSITY	VALENTOVIC	MONICA	A	90-NL-182	A	CERVENY
PARIS DIDEROT UNIVERSITY	ALPERT	NATHANIEL	A	90-NC-292	A	FREGLY
PARIS DIDEROT UNIVERSITY	COUNSELMAN	CHARLES	C	90-NC-229	A	PERRIZO
PARIS DIDEROT UNIVERSITY	DAMLEN	MUNTHER	A	90-NC-379	A	JACOBS
PARIS DIDEROT UNIVERSITY	EPSTEIN	ROBERT	H	20-NA-231	A	MCMICHAEL
PARIS DIDEROT UNIVERSITY	FRUND		H	90-NH-435	A	GLASSMAN

INSTITUTION	INVESTIGATOR LAST NAME	FIRST NAME	MIDDLE	PROPOSAL STATUS	PN NAME
MATERIALS RESEARCH SOCIETY	KING, JRLIN	ROBERT	W	90-NP-135	PERRIZO
	VALAVANI, YANG	JAMES	A	90-NM-437	GASSMAN
	GALLANCE	LENA	T	90-NM-360	JACOBIS
MCDONNELL DOUGLAS RESEARCH LAB	WAIGHT, III	KENNETH	F	90-NA-207	BIRKAN
MCMASTER UNIVERSITY	ANDERSON, CRIODDE	JOHN	S	90-NE-201	SCHIOLER
MERCHYURST COLLEGE	KOOCHESFAHANI, ORIEL	FREDERICK	W	90-NE-203	ROSENSTEIN
MEOSCALE ENVIRON SIMUL & OPER INC	POOLE, DEMETRIADES	MIKLOS	S	90-NA-235	PORRENKE
MICHIGAN STATE UNIVERSITY	LUTTON, SKOGLEY	LEWIS	H	90-NC-251	SAKELL
MISSION RESEARCH CORP	HORSTMAN, CRAIG	KENNETH	T	90-XO-039	BURGGRAF
MONTANA STATE UNIVERSITY	CAVANAGH, MANOOCHEHR	SHARON	J	90-NC-300	CAVENDER
NASA - AMES RESEARCH CENTER	CRAMER, PATRICK	CRAIG	S	90-NL-256	STOBIE
NATIONAL INST. OF STANDARDS & TECHNOLOGY	COX, JULIANNE	W. MICHAEL	H	90-NL-213	CERVENY
NATIONAL RESEARCH COUNCIL	BRADLEY, LAWRENCE	ANTHONY	D	90-NA-215	CERVENY
NAVAL POST GRADUATE SCHOOL	SERRY, GORDON	EARL	C	90-NA-197	MCMICHAEL
NAVAL RESEARCH LABORATORY	DONALDSON, PAUL	RICHARD	R	90-NL-197	CERVENY
NEW MEXICO STATE UNIVERSITY	ROWLAND, JULY	DAVID	C	90-NE-220	BARKER
NEW YORK UNIVERSITY MEDICAL CENTER	SCHMIDT-NIELSON, RAYSON	PAUL	S	90-NP-136	SAKELL
NORTH CAROLINA A&T STATE UNIVERSITY	HAKA, NAKA	LAWRENCE	H	90-NR-259	CERVENY
NORTH CAROLINA STATE UNIVERSITY	BEDAIR, SALAH	GORDON	D	90-NC-265	SAKELL
NORTH DAKOTA STATE UNIVERSITY	CAMPBELL, KELLEY	ASTRID	C	90-NG-281	BURGGRAF
NORTHEASTERN UNIVERSITY	STALLMAN, STEVEN	GARY	H	90-NC-290	SCHIOLER
NORTHWESTERN UNIVERSITY	SORDON, MATTHIAS	KEN-ICHI	D	90-XO-060	OWENS
ODAK RIDGE NATIONAL LAB	GIESE, SALAH	BOLINDRA	N	90-NP-131	BARKER
JAFLAND UNIVERSITY	KELLEY, C.	MARK	L	90-NL-202	FREGLY
OFFICE OF NAVAL RESEARCH	STALLMAN, C.	ROGER	D	90-NC-287	HEDBERG
OHIO STATE UNIV RESEARCH FOUNDATION	SORDON, MATTHIAS	ZDENEK	T	90-NR-178	GASSMAN
	GIESE, SAZANT	TOSIN	S	90-NR-369	CAVENDER
	MARKS, MARK	MARK	S	90-XO-033	CERVENY
	MATKOWSKY, PINSKY	ROGER	P	90-NA-211	JACOBIS
	MCKEE, ROBIN	ZDENEK	J	90-NA-376	GASSMAN
	REYNOLDS, SATISH	TOSIN	J	90-NC-422	CAVENDER
	BLUMENTHAL, PETER	MARK	J	90-NC-405	CERVENY
	YORK, THOMAS	MARK	A	90-NA-209	NACHMAN
		RODNEY	A	90-NA-247	SJØREN
		SATISH	A	90-NC-291	BURGGRAF
		PETER	X	90-NC-375	SCHOLES
		SAUL	X	90-NA-375	CERVENY
		THOMAS	X	90-NM-362	KELLEY
			X	90-NA-205	SJØREN
			X	90-NA-205	BIRKIN

INSTITUTION	INVESTIGATOR LAST NAME	FIRST NAME	MIDDLE	PROPOSAL STATUS	PR NAME
JWIO STATE UNIVERSITY	ANDRECK	C. DAVIS		90-NA-227	MCMICHAEL
	CHANDRASEKARAN	3.		90-NA-433	WAKSHAN
	OVERMAN II	EDWARD		90-NA-373	A
	LJCHMILLER III	ROBERT	L	90-NL-254	CERVERY
OKLAHOMA STATE UNIVERSITY	BRITCHER	COLIN	P	90-NA-213	MCMICHAEL
OLD DOMINION UNIVERSITY	HERNPIED	ALAN	G	90-NA-250	WU
OREGON STATE UNIVERSITY	LOGENDRAN	RASARATNAM		90-NA-397	GLASSMAN
PENNSYLVANIA STATE UNIVERSITY	KURTZ	STEWART	K	90-NC-398	O
	MESSINS	GARY	L	90-NC-302	D
	RAO	C.	R	90-NC-297	ULRICH
PHYSICAL SCIENCES INC	SENIOR	CONSTANCE	P	90-NC-391	SJOGEN
POLYTECHNIC INSTITUTE OF NEW YORK	KUO	SPENCER	P	90-NC-260	BURGERAF
PRINCETON UNIVERSITY	RABBIT	HERBERT	P	90-NC-122	RADOSKI
	SMITS	ALEXANDER	J	90-NA-409	NACHMAN
	SOOS	ZOLTAN	G	90-NA-260	MCMICHAEL
PURDUE RESEARCH FOUNDATION	FLEETER	SANFORD	R	90-NC-292	ULRICH
	GRANT	EDWARD	R	90-NA-226	MCMICHAEL
	MURTHY	S N 3		90-NC-266	BURGERAF
	GAUTSCHI	WALTER	H	90-NA-217	NACHMAN
	ZAK	STANISLAW		90-NA-427	O
PURDUE UNIVERSITY	COLE	JULIAN	D	90-NA-361	JACOBS
	CRAIG	KEVIN	C	90-NC-269	NACHMAN
RENSSELAER POLYTECHNIC INSTITUTE	SEDER	PETER NORLAND	R	90-NC-264	HEDBERG
RICE UNIVERSITY	GRANT	T		90-NC-263	BURGERAF
ROCKWELL INTER. & DEV. CENTER	GRANT	2		90-NE-221	BURGERAF
ROCKWELL INTERNATIONAL, SCIENCE CENTER	HARDWICK	DALLIS	A	90-NE-236	PORENKE
	CARLSON	PATRICIA	A	90-XD-032	ROSENSTEIN
ROSE-MULHUMAN INSTITUTE OF TECHNOLOGY	BENAROYA	HAYN		90-NA-242	CAYENDER
RUTGERS - THE STATE UNIVERSITY ENGR	WENG	GEORGE	J	90-NA-241	WU
	RAE	Y.	K	90-NC-273	HARITOS
SRI INTERNATIONAL	SHOCKLEY	DON	A	90-NA-205	HARITOS
	DE LA ZEAUDIÈRE	ODILE		90-NC-295	STOBIE
	GRUSIN	HAROLD	L	90-NE-239	A
	GUDI	RAMADEVI		90-NL-183	CERVERY
	BLOCK	I.	E	90-NR-399	NACHMAN
SOCIETY FOR INDUSTRIAL & APPLIED MATH	EHRLICH	MARION	A	90-NL-176	CERVERY
SOCIETY OF TOXICOLOGY	CLAY	SHARON	A	90-NL-242	CERVERY
SOUTH DAKOTA STATE UNIVERSITY	RICÉ	JAMES	A	90-NL-235	CERVERY
	CHOW	C	L	90-NA-243	HARITOS
SOUTHERN ILLINOIS UNIVERSITY	GREGORY	JOHN		90-NA-391	JACOBS
	LEDZEWCZ-KOWALEWSKAURSQUA	STUART	T	90-NA-430	JACOBS
SOUTHWEST RESEARCH INSTITUTE	SCHWAB	RONALDO	T	90-NE-212	SCHIOLER
S.TANFORD UNIVERSITY	SORJA	GEORGE	I	90-NA-246	BOTCE
	DANTZIG	T	3	90-NA-367	GLASSMAN
	SEBALLE	H		90-NE-203	WEINSTOCK
	HESSELINK	L		90-NE-233	CRAIG
	JOHNSTON	JAMES	P	90-NA-199	MCMICHAEL

AIR STATUS - A ACCEPTED, D DECLINED, W WITHDRAWN

INSTITUTION	INVESTIGATOR LAST NAME	FIRST NAME	MIDDLE	PROPOSAL STATUS	PR NAME
STATE UNIVERSITY OF NEW YORK	KELLER	JOSEPH	S	90-NH-349	A
	KLINE	STEPHEN	J	90-NA-245	MCMICHAEL
	LELE	SANJIVA	K	90-NA-256	MCMICHAEL
	MOIN	PARVIZ		90-NA-230	A
	MURRAY	WALTER		90-NH-406	GLASSMAN
	NILSSON	NILS		90-NH-423	WAKSMAN
	ROSS	JOHN		90-NC-256	WODARCZYK
	COSPER	ELIZABETH	H	90-NC-241	CERVENY
	GARVEY	JAMES	F	90-NC-306	ULRICH
	GEORGE	WILLIAM	K	90-NA-211	MCMICHAEL
	MILES	RONALD	K	90-NA-249	HU
	NAPOLI	JOSEPH	L	90-NL-215	CERVENY
	PRASAD	RARAS		90-NC-277	ULRICH
	SHOONEN	MARTIN	A	90-NL-208	CERVENY
	ERMELIN	WALTER	C	90-NP-123	LUPO
	NARDI	VITTOPIO		90-NC-120	BARKER
STEVENS INSTITUTE OF TECHNOLOGY	SATYANARAYANA	A.		90-NA-383	GLASSMAN
	WEINER	DONALD	D	90-XO-029	CAVENDER
	BLOOM	JUSTIN	L	90-NE-213	WITT
	MOORE	DIRK	F	90-NH-421	SJOGREN
	HALVEQSON	DON	R	90-NH-195	SJOGREN
	MARCOWICH	FRANCIS	J	90-NH-426	NACHMAN
	RUNDELL	WILLIAM		90-NP-353	A
	GROEBER	ALAN		90-NL-252	CERVENY
	WANAKULE	NISAI		90-NL-240	CERVENY
	ERTAS	ATILA		90-NA-233	HU
				90-NL-235	BARKER
				90-NC-121	CRAIG
TULANE UNIVERSITY	ISHIHARA	OSAMU	F	90-NE-202	CERVENY
	WALKUP	JOHN		90-NL-237	CERVENY
	ABDELGHANI	ASSAF	A	90-NL-231	CERVENY
	BARKER	JOHN	T	90-NL-239	CERVENY
	FINGERMAN	MILTON		90-NL-209	CERVENY
	PILMANIS	ANDREW	A	90-NA-219	SOYCE
	FREIMAN	CHARLES	V	90-NE-206	WEINSTOCK
	KORWEK	ALEXANDER	D	90-NC-269	BURGGRAF
	ANDERSEN	E	L	90-NA-203	HARITOS
	CHANDRA	IGNIJIT		90-NE-224	POMRENKE
	FALCO	CHARLES	V	90-NH-357	NACHMAN
	MOLONEY	J.		90-NA-212	MCMICHAEL
	WYGANSKI	ISRAEL		90-NL-220	CERVENY
	HARRISON, III	ROBERT		90-NC-309	HADDAD
	REINER	PETER		90-NE-225	STOZIE
	GAUTIER	CATHERINE		90-NH-417	WITT
	GOSSARD	ARTHUR	C	90-NA-351	GLASSMAN
	HAKIMI	S.		90-NA-193	JACOBS
	HELTON	J.	L	90-NL-193	TANGNEY
	HOFFMAN	DONALD		90-NA-237	SAKELL
		EMERITUS			
UNIV OF ARKANSAS					
UNIV OF BRITISH COLUMBIA					
UNIV OF CALIFORNIA					

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
LUMMANN, JR.	NEVILLE	C		90-NP-117	A	BARKER
MARSDEN	JERROLD	E		90-NR-385	A	NACHMAN
NOVIKOV	EUGENY	A		90-NR-343		NACHMAN
SCOW	KATE	H		90-NL-213		CERVENY
SIEGEL	JEROME	H		90-NL-175		BERRY
SISCOE	GEORGE	L		90-XO-030	A	CAVENDER
STARK	LAWRENCE	L		90-NL-193		TANGNEY
SYVANEN	MICHAEL	L		90-NL-216		CERVENY
WANG	KANG	L		90-NE-225		PONENKE
	SHYH			90-NE-339		CRAIG
WILLIAMS	JANE-LING	A		90-NM-372	A	SJOGREN
WILSON	FORMAN	A		90-NA-209	A	BIRKIN
RICE	SARRY	H		90-NL-225		CERVENY
DORSEY	STUART	A		90-NC-310		BURGRAF
FERENDECI	JOHN	G		90-NL-244		CERVENY
SAUNES	ALTAN	H		90-NO-126		BARKER
FREYMUTH	FRANK	H		90-NE-219		CRAIG
JORDAN	PETER	P		90-MA-252		SAKELL
MICHL	HARRY	Z		90-NE-225		CRAIG
COUGHLIN	JOSEF	L		90-NC-262		BURGRAF
COOK-IOANNIDIS	ROBERT	P		90-NL-211		CERVENY
MASHED	L.			90-NM-389	A	NACHMAN
YENSHAW	THOMAS	L		90-NC-042	A	BOLAND
BARTLETT	RODNEY	J		90-NP-133	A	KELLEY
DEBARR	MICHAEL J. S.	H		90-NC-193	A	HEBBERG
YAGER	WILLIAM	W		90-NR-384		GLASSMAN
HEUCH	LARRY	L		90-NC-305		ULRICH
MONKHORST	HENDRIK	J		90-NC-308		ULRICH
VALA	MARTIN	F		90-NC-274		BURGRAF
VINFORDNER	JAMES	D		90-NC-315		STOBIE
MILLER	WILLIAM	P		90-NL-253		CERVENY
SMART	N			90-NA-201	A	BOYCE
AMIROUCHE	FARID	H		90-NA-210	A	WU
KITER	HERMAN	R		90-NA-264	A	BIRKIN
PERKINS	WILLIAM	R		90-NM-273		JACOBS
TRENBARY	MICHAEL	R		90-NC-283		AUREGRAF
DARWIN	DAVIS	D		90-NM-283	A	WAKSAN
MCELVEE	CARL	D		90-NL-235	A	CERVENY
BAISILI	VICTOR	R		90-NR-408	A	HOLLAND
SERENSTEIN	CARLOS	A		90-NM-387		NACHMAN
CHEN	H	H		90-NE-229		SUDORTH
MINKER	JACK	H		90-NM-401		WAKSAN
SINGH	UPENDRA	N		90-NC-313		STOBIE
BRADLEY	QRIAN	P		90-NL-243		CERVENY
REIM SCHUEISSEL	RENATE	P		90-NI-232		CERVENY
CROFT	W.	3		90-NR-363		WAKSAN
KRISHNAMURTY	SUNDAR	3		90-NA-264		WU
UNIV OF MARYLAND, BALTIMORE CAMPUS						
UNIV OF MASSACHUSETTS						

INSTITUTIONAL INDEX
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
SATION - A ACCEPTED, D DECLINED.
1 JUL 90 - 30 SEP 90

WITHDRAWN

PAGE 7

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PR NAME
UNIV OF TOLEDO	LAGOW	RICHARD	J	90-NC-295	W	HEDBERG
UNIV OF TORONTO	MIRANKER	DANIEL	P	90-NC-299	W	HEDBERG
UNIV OF VIRGINIA	WILEY	JOHN	R	90-NR-416	WAKSMAN	
UNIV OF WASHINGTON	SMITH	DOUGLAS	A	90-NL-245	CERVENY	
SURNS	GURNS	GEORGE	A	90-NL-227	CERVENY	
MACLEOD	MACLEOD	COLIN	N	90-NC-301	DAVIS	
NOOR	NOOR	AHMED	K	90-NL-173	FREGLY	
BANERJEE	BANERJEE	SUMMAL		90-NA-222	A	WU
GOLDSTEIN	GOLDSTEIN	EMERITUS	A	90-NA-224	BOYCE	
HUNT	HUNT	EARL	A	90-NR-437	GLASSMAN	
KUROSAKA	KUROSAKA	K	A	90-NL-194	FREGLY	
SARIKAYA	SARIKAYA	MEHMET		90-NA-239	A	MCMICHAEL
TAYA	TAYA	MINORU		90-NC-311	W	HEDBERG
BERGMAN	BERGMAN	HAROLD	L	90-NA-220	HARITOS	
NOVICK	NOVICK	LAURA	R	90-NL-249	CERVENY	
HAFTKA	HAFTKA	RAFAEL	T	90-NL-204	FREGLY	
LIBRESCU	LIBRESCU	LIVIU		90-NA-396	GLASSMAN	
MCGRATH	MCGRATH	JAMES	E	90-NA-258	WU	
PLEMMONS	PLEMMONS	ROBERT	J	90-NC-304	HEDBERG	
GHOSH	GHOSH	BJOY	K	90-NR-338	A	GLASSMAN
ARKING	ARKING	ROBERT	K	90-NR-380	D	JACOBS
WADEhra	WADEhra	JOGIN德拉	R	90-NL-216	CERVENY	
LANDIS	LANDIS	WAYNE	G	90-NP-128	LUPO	
GAVALER	GAVALER	J		90-NC-304	CERVENY	
LIPTON	LIPTON	ROBERT	P	90-NE-250	WEINSTOCK	
SURTOM, JR	SURTOM, JR	GLEN	A	90-NM-441	JACOBS	
CHANG	CHANG	RICHARD	K	90-NL-221	CERVENY	
ROSNER	ROSNER	DANIEL	E	90-NA-202	TISHKOFF	
SREENIVASAN	SREENIVASAN	K		90-NA-228	A	TISHKOFF
				90-NA-238	A	MCMICHAEL

PART II

REPORT DATE: 10/24/20

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
SUPERVISORY COMMITTEE OF AEROSPACE SCIENCES

1

REPORT DATE 10/24/70

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF AEROSPACE SCIENCES

PAGE	2		
TITLE	CONT.	INITIATE	START DATE
TITLE	INVESTIGATOR	TYPE / MONTHS	PROGRAM MANAGER
INSTITUTION		RECEIVED	PROPOSAL #
TURBULENCE AND TURBULENCE CONTROL		R 24	A
YALE UNIVERSITY	SCREENIVASSAN K	13/08/90 \$264,252	MCMICHAEL 90-NA-238
UNIV OF KANSAS		N 12 10/09/90 \$93,464	A WU 90-NA-248
UNIV OF COLORADO	DARWIN	N 24 18/09/90 \$100,740	SAKELL 90-NA-252
ARTICULATE CARTILAGE AS A COMPOSITE MATERIAL		N 21 21/09/90 \$550,770	HARITOS 90-NA-257
UNIV OF MINNESOTA	LEO, PH.D.	R 12 25/09/90 \$99,978	A SIRKAN 90-NA-264
ANALYSIS OF NON-LOCAL THERMAL EQUILIBRIUM LASER SUSTAINED HYDROGEN		N 25 09/08/90 \$3337.655	SAKELL 90-NA-236
UNIV OF ILLINOIS	KRIER	N 25 18/09/90 \$290,237	SIRKAN 90-NA-251
MURST-VORTEX FLOWFIELD UNSTEADINESS		N 25 18/09/90 \$290,237	SAKELL 90-NA-251
MCDONNELL DOUGLAS RESEARCH LAB	FREDERICK ROOS	N 36 30/08/90 \$248,401	HARITOS 90-NA-243
MASS-REMoval INDUCED OSCILLATIONS OF SHOCK/BOUNDARY-LAYER INTERACTIONS		N 06 20/07/90 \$0	HARITOS 90-NA-225
MCDONNELL DOUGLAS RESEARCH LAB	SAJSEN MIKLOS	N 06 20/07/90 \$0	HARITOS 90-NA-225
A HYBRID ANALYSIS FOR MICROMECHANICAL DAMAGE CHARACTERIZATION OF COMPOSITES BASED ON FRACTURE AND CONTINUUM DAMAGE MECHANICS		N 06 20/07/90 \$0	HARITOS 90-NA-225
SOUTHERN ILLINOIS UNIVERSITY	CHOW C	N 06 20/07/90 \$0	HARITOS 90-NA-225
INTERNATIONAL CONFERENCE ON COMPUTATIONAL ENGINEERING SCIENCE		N 06 20/07/90 \$0	HARITOS 90-NA-225
GEORGIA INSTITUTE OF TECH	JATAYA ATLURI	N 06 20/07/90 \$0	HARITOS 90-NA-225

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 3

TITLE TITLE CONT. INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS AMOUNT	PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
ANALYSIS AND DAMPING ENHANCEMENT OF LARGE SPACE STRUCTURES WITH NONLINEAR JOINTS	FERRI ALDO	N 36 01/08/90 \$317,368	WU 90-NA-232		\$0 /	\$0
ANTI-OPTIMIZATION OF STRUCTURES UNDER UNCERTAINTIES A NEW SET THEORETICAL APPROACH TO FIND LEAST FAVORABLE RESPONSES AND ELISHAKOFF	ISAAC	N 24 11/07/90 \$197,636	WU 90-NA-208		/	\$0
JOINT UNIVERSITY-INDUSTRY RESEARCH IN THE DEVELOPMENT OF A NEW STABILITY-TRANSITION METHOD	TUNCER	N 21 19/09/90 \$177,260	SAKELL 90-NA-253		\$0 /	\$0
FUNDAMENTALS OF ACOUSTIC INSTABILITY IN LIQUID-PROPELLANT ROCKETS	WILLIAMS	N 36 11/07/90 \$399,572	BIRKAN 90-NA-209		\$122,579 15/12/90 \$399,622	
THE FLUID DYNAMIC AND AERODYNAMIC CHARACTERISTICS OF MOVING CONTROL SURFACES WITH SEPARATION	HOLT	N 36 10/08/90 \$267,677	SAKELL 90-NA-257		/	\$0
CALIBRATION OF HOT-WIRES FOR THE MEASUREMENT OF MULTIPLE FLUCTUATING FLOW VARIABLES	SWITCHER COLIN	N 24 12/07/90 \$89,181	MICHAEL 90-NA-213		/	\$0
NONLOCAL THEORY FOR FRACTURING OF QUASI-BRITTLE MATERIALS	ZALANT	N 36 05/09/90 \$246,147	WU 90-NA-247		\$76,460 01/01/91 \$246,147	
STABILITY AND DYNAMIC RESPONSE OF STRUCTURES SUBJECTED TO ROTATION INDUCED COMPRESSION	ALAN HERNRIED	N 24 11/09/90 \$140,643	WU 90-NA-250		/	\$0
LASER DIAGNOSTIC STUDIES OF PLASMA THRUSTERS	THOMAS YORK	R 12 11/07/90 \$40,250	A BIRKAN 90-NA-206		\$40,250 15/12/90 \$40,250	
JMIC STATE UNIV RESEARCH FOUNDATION						

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 70 - 30 SEP 90
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF AEROSPACE SCIENCES

PAGE 4

TITLE	TYPE/MONTHS	STATUS	PROGRAM MANAGER	INITIATE
TITLE CONT.	RECEIVED	PROPOSAL #	PROPOSAL #	START DATE
INSTITUTION	AMOUNT			TOT AMT
A UNIFIED METHOD FOR THE EFFICIENT SYNTHESIS OF MECHANICMS	N 36 30/08/90 \$144,328	WU 90-NA-264		\$0 / / \$0
UNIV OF MASSACHUSETTS	SUNDAY			
AIR FORCE ENGINEERING RESEARCH INITIATION GRANTS	R 15 16/07/90 \$480,000	A BOYCE 90-NA-219		\$120,000 01/07/91 \$480,000
UNITED ENGINEERING TRUSTEES INC	CHARLES			
DEVELOPMENT AND APPLICATION OF FLUORESCENT DIAGNOSTICS TO FUNDAMENTAL DROPLET AND SPRAY PROBLEMS	N 36 12/07/90 \$210,000	TISHKOFF 90-NA-216		\$0 / / \$0
ARMY RESEARCH OFFICE	DAVID			
ARO MPR FOR JAI ASSOCIATES, INC/SRENIVASAN	N 24 16/07/90 \$68,975	A SAKELL 90-NA-218		\$44,368 01/07/90 \$68,975
ARMY RESEARCH OFFICE	MARY ANN			
LUCAS				
THE STRUCTURE OF SUPERSONIC TURBULENT BOUNDARY LAYERS AND SHOCK WAVE BOUNDARY LAYER INTERACTIONS	R 24 12/07/90 \$300,962	MCMICHAEL 90-NA-260		\$0 / / \$0
PRINCETON UNIVERSITY	SMITS			
ALEXANDER				
MOLECULAR MIXING IN CLEAR LAYERS FORCED BY 2-D AND 3-D DISTURBANCES	N 24 12/07/90 \$232,762	MCMICHAEL 90-NA-215		\$0 / / \$0
WICHIGAN STATE UNIVERSITY	KOOCHESFAHANI			
MANOOCHEHR				
TAYA				
MINCRU				
DAMAGE ACCUMULATION PROCESS IN ADVANCED METAL MATRIX COMPOSITES UNDER THERMAL CYCLING	R 36 16/07/90 \$85,554	HARITOS 90-NA-220		\$0 / / \$0
JMIV OF WASHINGTON				
SUNIMAL				
A FUNDAMENTAL STUDY OF THE FIELD COMPRESSOMETER TEST	N 36 18/07/90 \$304,970	BOYCE 90-NA-224		\$0 / / \$0
UNIV OF WASHINGTON	BANERJEE			
K				
JET-IMPINGEMENT COOLING & THE TORNADO EFFECT OF HORSESHOE VORTICES ON CONVECTIVE HEAT TRANSFER	N 24 13/08/90 \$224,000	MCMICHAEL 90-NA-239		\$0 / / \$0
UNIV OF WASHINGTON	KURCSAKA			

TITLE	INVESTIGATOR	TYPE/ MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE START DATE	TOT AMT
TITLE CONT.		AMOUNT	PROPOSAL #			
INSTITUTION						
THE OVERALL RESPONSE OF COMPOSITE MATERIALS UNDERGOING LARGE PLASTIC DEFORMATIONS	PONTE-CASTANEDA	06/00	N 19	A	\$52,692 01/01/91	\$52,692
UNIV OF PENNSYLVANIA		\$109,059	24/09/90 \$109,059	HARITOS 90-NA-251		\$109,059
A COMPREHENSIVE STUDY OF THE NON-CLASSICAL THEORY AND BEHAVIOR OF TWIN-WALLED JACKET STRUCTURES MADE OF ADVANCED COMPOSITE MATERIALS	LIVEL	N 36 29/09/90 \$160,557	WU	90-NA-253	/ /	\$0
VIRGINIA POLYTECHNIC INST & STATE UNIV						
DYNAMICS OF AGGLOMERATES IN CHEMICALLY REACTING FLOWS	TRYFON CHARALAMPOULOS	N 16 26/07/90 \$526,433	TIGHEOFF 20-NA-229	/ /		\$0
LOUISIANA STATE UNIVERSITY						
INVESTIGATION OF UNSTEADY VORTICAL FLOW IN AN ANNULAR CASCADE	MILLIAN GEORGE	N 24 12/07/90 \$314,931	MCMICHAEL 90-NA-211	/ /		\$0
STATE UNIVERSITY OF NEW YORK						
STUDIES OF SHORT-TIME GAUSSIAN CELL MAPPING METHODS	RONALD WILES	N 36 11/09/90 \$223,343	WU	90-NA-269	/ /	\$0
STATE UNIVERSITY OF NEW YORK						
WEAT TRANSFER INTERACTIONS AND CONTROLLABILITY IN THE PRESENCE OF FREE STREAM TURBULENCE	MURTHY	N 36 13/07/90 \$238,963	MCMICHAEL 90-NA-217	/ /		\$0
PURDUE RESEARCH FOUNDATION						
ZERO-ORDER DYNAMIC DISTORTION INDUCED STRUCTURAL DYNAMIC RESPONSE OF MULTI-STAGE TURBOMACHINE BLADING	SANFORD FLEETER	N 26 26/07/90 \$373,618	MCMICHAEL 20-NA-226	/ /		\$0
PURDUE RESEARCH FOUNDATION						
GRAPHICS POST PROCESSING SUPPORT FOR SHOCK WAVE-TURBULENT BOUNDARY LAYER NUMERICAL SIMULATIONS	C. HORSTMAN	N 12 25/09/90 \$7,000	SAKELL 90-NA-265	/ /		\$0
NASA - AMES RESEARCH CENTER						
ZINNIAL TURBULENCE AND PHASE DYNAMICS A STUDY OF MACRO- AND MICRO- SCALE PHENOMENON IN A TURBULENT FLOW	C. DAVIS	N 10 26/07/90 \$350,000	MCMICHAEL 90-NA-227	/ /		\$0
ZINNIAL UNIVERSITY						

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SE 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

PAGE 6

TITLE	TITLE CONT.	INVESTIGATOR	TYPE / MONTHS RECEIVED			STATUS	PROGRAM MANAGER	PROPOSAL #	INITIATE START DATE	TOT AMT
			AMOUNT	PROPOSAL #	MONTHS					
DYNAMICS AND BIFURCATIONS OF LARGE FLEXIBLE STRUCTURES WITH APPENDAGES	ATLAS	ATILLA	N 24 C 108/90 S 579,302	WU	90-NA-255	I	I	40		
EXPERIMENTAL AND THEORETICAL INVESTIGATIONS OF MULTI DEGREE OF FREEDOM NONLINEAR SYSTEMS UNDER RANDOM EXCITATION	DATA'S	ATILLA	N 24 C 108/90 S 579,302	WU	90-NA-255	I	I	50		
STRESS WAVES PROPAGATION IN FOUNDATION-STRUCTURE CONTACT PROBLEMS UNDER DYNAMIC EXCITATION	CEDERbaum	JAMES	N 16 C 108/90 S 103,200	WU	90-NA-255	I	I	40		
MICROMECHANICS OF HIGH-TEMPERATURE DEFORMATION OF METAL-MATRIX COMPOSITES AND THE INFLUENCE OF DISTRIBUTED DAMAGE	GEORG	RUTGERS - THE STATE UNIVERSITY ENGR	N 25 C 159,035	WU	90-NA-255	I	I	50		
RANDOM EIGENVALUES IN STRUCTURAL DYNAMICS	HAYM	RUTGERS - THE STATE UNIVERSITY ENGR	N 36 C 242,228	WU	90-NA-242	I	I	50		
AEROPULSION RESEARCH ON THE HYBRID PLUME PLASMA ROCKET	GENARO YANG	RUTGERS - THE STATE UNIVERSITY OF TECHNOLOGY	N 04 C 120,000	WU	90-NA-207	I	I	50		
CHARACTERIZATION OF FULLY SCALED, UNSTEADY TURBINE BLADE BOUNDARY LAYERS	EPSTEIN	JOHNSTON	N 24 C 303,925	WU	90-NA-251	I	I	50		
TURBULENT CONVECTIVE HEAT TRANSFER WITH HIGH FREE-STREAM TURBULENCE	JAMES	STANFORD UNIVERSITY	N 24 C 550,750	WU	90-NA-199	I	I	50		
ACTIVE TURBULENCE CONTROL IN WALL BOUNDARY FLOWS USING DIRECT NUMERICAL SIMULATION	NICH	STANFORD UNIVERSITY	N 13 C 135,455	WU	90-NA-230	I	I	55	91/01/91 91/02/91 \$120,000	564,720

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF AEROSPACE SCIENCES

PAGE 7

TITLE	CONT.	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	PROPOSAL #	INITIATE START DATE	TOT AMT
INVESTIGATION OF THE TURBULENCE PRODUCING STRUCTURES IN THE BOUNDARY LAYER		STEPHEN KLINE	Y 20 31/08/90 \$273,390	MCMICHAEL 90-NA-245	/	/	/	\$0
THE ROLE OF PORE FLUIDS ON THE LOCALIZATION OF DEFORMATION IN DENSE GRANULAR MATERIALS		RONALD C. BORJA	N 36 04/09/90 \$211,027	JOYCE 90-NA-246	MCMICHAEL 90-NA-256	/	/	\$0
A NUMERICAL STUDY OF FREE-STREAM TURBULENCE EFFECTS ON STAGNATION-POINT HEAT TRANSFER		LELE SANJIVA	N 24 21/09/90 \$294,665	MCMICHAEL 90-NA-257	/	/	/	\$0
NEW PREDICTIVE METHODS IN CHAOTIC FLUID DYNAMICS WITH APPLICATION TO TURBULENT HEAT TRANSFER		LEONARD A. CALIFORNIA INSTITUTE OF TECHNOLOGY	N 36 12/07/90 \$305,558	MCMICHAEL 90-NA-214	/	/	/	\$0
RESEARCH IN HYPERVELOCITY GASDYNAMICS		HORNUNG	N 35 17/07/90 \$426,334	SAKELL 90-NA-223	/	/	/	\$0
ENVIRONMENTAL IMPACT ON THE PERFORMANCE OF CONCRETE STRUCTURES		KRAJCINOVIC	N 36 20/09/90 \$247,300	WU 90-NA-254	/	/	/	\$0
THE SPECTRUM AND INTERMITTENCY FUNCTIONS OF HIGH SPEED TURBULENT BOUNDARY LAYERS		DEMETRIADES	N 26 21/09/90 \$164,464	SAKELL 90-NA-259	/	/	/	\$0
THEORETICAL AND COMPUTATIONAL BASES FOR SIMULATION OF CRACK PROPAGATION IN THREE-DIMENSIONS		ANTHONY INGRAFFEA	N 36 21/09/90 \$319,319	WU 90-NA-255	/	/	/	\$0
EFFECTS OF PRESSURE GRADIENT & MICRO-GROOVES ON REYNOLDS ANALOGY & TURBULENT BOUNDARY NUMBER IN TRANSITIONAL BOUNDARY LAYERS		TANG	N 24 25/09/90 \$204,703	MCMICHAEL 90-NA-262	/	/	/	\$0

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 20 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 1

TITLE	CONT.	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE START DATE	TO TOT ANT
RESEARCH ON ORGANOFUORINE CHEMISTRY FOR 760 DEGREES F THE REDOX/REDATIVE STABILITY	UNIV OF IDAHO IDAHO JUNIVERSITY	J. SAREEVE	N 09/07/90 \$90,000	12	HEDBERG 90-NC-252	/ /	\$0 \$0
MEASUREMENT OF RADATIVE LIFETIMES OF VIBRATIONAL STATES OF SIMPLE IONS	UNIV OF PARIS	MARX	R 13/07/90 \$22,558	12	A WODARCZYK 90-NC-258	\$35/280 01/11/90	\$35/280
MATERIALS DERIVED FROM 1-1-1 PROPELLANE	UNIV OF COLORADO	H. H. HACHL	N 16/07/90 \$140,380	12	BURGRAF 90-NC-262	/ /	\$0 \$0
THEORETICAL METHODS FOR THE CALCULATION OF LIFETIMES OF ELECTRONIC EXCITATIONS IN ATOMS ENBEDDED IN MATRIX MATERIALS	UNIV OF FLORIDA FLORIDA STATE UNIVERSITY	PETER NORDLANDER	N 16/07/90 \$53,665	12	BURGRAF 90-NC-264	/ /	\$0 \$0
SPECTROSCOPIC STUDIES OF MATRIX-ISOLATED ATOMS, CLUSTERS AND IONS, POSSIBLE HIGH ENERGY DENSITY SYSTEMS	UNIV OF FLORIDA FLORIDA INTERNATIONAL	V. VALA	N 16/07/90 \$210,789	12	BURGRAF 90-NC-274	/ /	\$0 \$0
ROBUST INERT FILMS FROM C-FULLERENE CLUSTERS	UNIV OF ILLINOIS ILLINOIS	Y. HEAVEN	N 16/07/90 \$161,193	12	BURGRAF 90-NC-278	/ /	\$0 \$0
STUDIES OF ENERGY TRANSFER PROCESSES OF RELEVANCE TO CHEMICALLY AND OPTICALLY PUMPED LASERS	UNIV OF ILLINOIS ILLINOIS	MICHAEL TRENTAY	N 27/07/90 \$36,474	12	BURGRAF 90-NC-285	/ /	\$0 \$0
THE STRUCTURE AND ReactIVITY OF IRON AND CARBON SURFACES	UNIV OF FLORIDA FLORIDA	MICHAEL DEJAR	N 31/07/90 \$124,141	12	BURGRAF 90-NC-291	/ /	\$0 \$0
DEVELOPMENT OF PRACTICAL AND TECHNIQUES FOR IDENTIFICATION OF THE PROPERTIES AND BEHAVIOR OF MATERIALS	UNIV OF FLORIDA FLORIDA	MICHAEL J. S.	R 02/08/90 \$115,766	12	A HEDBERG 90-NC-292	1115/746 01/11/90	\$115,766

REPORT DATE 10/26/70

PROPOSAL STATUS REPORT 1 JUL 70 - 30 SEP 70
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 2

TITLE TITLE CONT. INSTITUTION	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROPOSAL #	INITIATE START DATE TOT AMT	
ATMOSPHERIC STUDIES OF THE BOUNDARY BETWEEN OPEN AND CLOSED FIELD LINES JRI INTERNATIONAL	N 12 36/08/90 \$396,317	STOREE 90-NC-295	/	\$0
NEW EXPERIMENTAL CHALLENGES IN ELEMENTAL FLUORINE CHEMISTRY EMERGING TECHNOLOGY JNIV OF TEXAS	R 12 29/03/90 1125,000	HEDBERG 90-NC-298	/	\$0
NEW EXPERIMENTAL CHALLENGES IN ELEMENTAL FLUORINE CHEMISTRY LAGOW	R 12 29/08/90 3120,000	HEDBERG 90-NC-299	/	\$0
SD CLASSICAL TRAJECTORY STUDY OF DIATOM DISSOCIATION-ATOMIC RECOMBINATION REACTIONS JNIV OF TORONTO	N 12 15/02/90 \$27,625	DAVIS 90-NC-301	/	\$0
MULTI-INVESTIGATOR RESEARCH PROGRAM MIRP JLT/STRUCTURAL SOL-GEL MATERIALS JNIV OF FLORIDA	R 12 10/09/90 \$454,604	ULRICH 90-NC-305	/	\$0
DESIGNING INTRINSICALLY CONDUCTING POLYMERS THEORY AND SYNTHESIS WITH RULES AND CALCULATIONS JNIV OF FLORIDA	N 12 13/03/90 \$124,056	ULRICH 90-NC-308	/	\$0
MOLECULAR LEVEL CONTROL OF ENHANCEMENT OF PRODUCT FORMATION IN A REACTION JNIV OF CHICAGO	N 12 20/09/90 \$302,211	GURGRAF 90-NC-310	/	\$0
CIRRUS CLOUD MEASUREMENTS WITH LIIDAR AND OTHER SENSORS JNIV OF MARYLAND	N 12 25/09/90 \$137,310	STOREE 90-NC-313	/	\$0
PHOTOLYSIS LASER SENSOR JNIV OF FLORIDA	N 12 25/09/90 \$157,570	STOREE 90-NC-315	/	\$0

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 20 - 30 SEP 90
AFIP FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER		INITIATE DATE	START DATE	TOT AMT
				AMOUNT	PROPOSAL #			
ELECTRO-OPTIC POLYMER MATERIALS FOR ADVANCED DEVICE IMPLEMENTATION	SUSAN ERNEST	N 11/07/90 \$148,225	12	ULRICH 90-NC-255	/	\$0	/	\$0
LOCKHEED MISSILES & SPACE CO INC								
COMPUTATIONAL STUDIES OF ENERGY STORAGE IN CONDENSED MEDIA	GEORGE ADAMS	N 16/07/90 \$133,097	12	SURGERAF 90-NC-265	/	\$0	/	\$0
ARMY ARMAMENT R&D CWD/BALLISTICS R&D LA	CONSTANCE	N 16/07/90 \$154,910	12	SURGERAF 90-NC-260	/	\$0	/	\$0
IMPLEMENTATION OF COATED EORTON SENSORS BY CVD FOR PROPELLANT APPLICATIONS	KENNETH SENIOR	N 14/08/90 \$5,750	12	STOZIE 90-NC-100	/	\$0	/	\$0
RAY 2 DEVELOPMENT OF CONVECTIVE PARAMETERIZATION SCHEMES FOR LESOSCALE MODELS	RICHARD KENNETH	N 20/07/90 \$120,000	12	SURGERAF 90-NC-231	/	\$0	/	\$0
LESOSCALE ENVIRON SIMUL & OPER INC	CAVANAGH							
FEMTOSECOND LASER STUDIES OF EXCITED SURFACE STATES	NICHOLAS PHILLIPS	N 26/07/90 \$61,120	12	ULRICH 90-NC-232	/	\$0	/	\$0
NATIONAL INST. OF STANDARDS & TECHNOLOGY	RICHARD	N 17/07/90 \$152,000	12	SURGERAF 90-NC-231	/	\$0	/	\$0
APPLICATION OF GEL-CILIUM OPTICS TO LASER TECHNOLOGY AND OPTICAL ELEMENT FABRICATION	NICHOLAS	N 12/09/90 \$61,120	12	ULRICH 90-NC-232	/	\$0	/	\$0
UNIVERSITY OF TECHNOLOGY								
BIOMOLECULAR SYNTHESIS OF SUBSTITUTED J-AMINOACIDS	TERRY LEES	N 12/09/90 \$170,992	12	HEDBERG 90-NC-307	/	\$0	/	\$0
GENERAL ELECTRIC CO	RAYSON RANDY	N 31/07/90 \$123,650	12	HEDBERG 90-NC-237	/	\$0	/	\$0
IONOSPHERIC FORMATION AND DECOMPOSITION PROCESSES IN PLASMA								
NEW MEXICO STATE UNIVERSITY	RAYSON RANDY	N 19/09/90 \$92,691	12	HEDBERG 90-NC-237	/	\$0	/	\$0
AUTOMATIC CLOUD CLASSIFICATION FROM MULTI-SPECTRAL SATELLITE DATA	CATHCINE GAUTIER	N 19/09/90 \$82,691	12	STOZIE 90-NC-309	15/12/90	\$82,691	15/12/90	\$82,691
UNIV OF CALIFORNIA								

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 20 - 30 SEP 90
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 4

TITLE	CONT.	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	INITIATE
TITLE	INSTITUTION	AMOUNT	PROGRAM MANAGER	PROPOSAL #	START DATE
HIGH ENERGY DENSITY MATERIALS: NEW SOLIDS CONTAINING METASTABLE HYDROGEN OR FLUORINE	JOHN MARGRAVE	N 12 16/07/90 3321-267	BURGGRAF 90-NC-261	/	\$0 / 50
SELECTING REACTIVITY, ULTRAFAST ENERGY TRANSFER AND THE DEVELOPMENT OF CHEMICALLY PUMPED VISIBLE LASERS	JAMES GOLE	N 12 25/07/90 \$50,000	BURGGRAF 90-NC-284	A	\$50,000 01/10/90 \$50,000
SYNTHESIS AND CHEMISTRY OF NEW ENERGETIC MATERIALS AND MOLECULAR CLEAVES DERIVED FROM POLYCYCLIC CAGE COMPOUNDS	ALAN MARCHAND	2 12 06/07/90 \$40,000	HEDBERG 90-NC-251	/	\$0 / 50
THE SYNTHESIS AND CHARACTERIZATION OF NEW ORGANOANTIMONY AND -TIN-SUTHE HYDRIDES	JERRY BERRY	N 12 31/07/90 \$95,500	HEDBERG 90-NC-290	/	\$0 / 50
THEOLOGICAL MEASUREMENTS OF UV CURABLE POLYMERS	CRAIG	N 12 05/07/90 \$98,000	HEDBERG 90-NC-249	/	\$0 / 50
CONDENSED PHASE HIGH ENERGY DENSITY MATTER	JARDINE	0			
AIRCULUS AEROSPACE CO.					
SYNTHESIS OF HIGH DENSITY JEM2: A POTENTIAL HIGH HYDROGEN FUEL	AKELLA JAJAN	N 12 16/07/90 \$103,000	BURGGRAF 90-NC-275	/	\$0 / 50
EXTENDED-SOLID HIGH ENERGY DENSITY MATERIALS	MAILHOT CHRISTIAN	N 12 16/07/90 \$243,100	BURGGRAF 90-NC-271	/	\$0 / 50
PROCESSING OF NON-OXIDE NANOCOMPOSITE ARCHITECTURES FROM NOVEL POLYMER-BASED COMPOUNDS	JARRY	N 12 16/07/90 \$279,500	BURGGRAF 90-NC-272	/	\$0 / 50
PENNSYLVANIA STATE UNIVERSITY					

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 5

TITLE TITLE CONT. INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT			STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
		N	12	D			
END USA-USSR SEMINAR ON FERROELECTRICS DEDICATED TO THE PHYSICS OF FERROELECTRICS AND RELATED MATERIALS	KURTZ	N	17/08/90 \$18,333	ULRICH 90-NC-302	/	\$0	
PENNSYLVANIA STATE UNIVERSITY	STEWART	/	/	/	/	\$0	
SELF-ASSEMBLED CHROMOPHORIC SUPERLATTICES: SYNTHESIS AND CHARACTERIZATION BY NONLINEAR OPTICAL TECHNIQUES	MARKS	A	1/08/90 \$115,200	ULRICH 90-NC-291	/	\$0	
NORTHWESTERN UNIVERSITY	TOSIN	/	/	/	/	\$0	
CONDENSED PHASE HIGH ENERGY DENSITY MATTER	ANDERSEN	N	16/07/90 \$100,000	SURGGRAF 90-NC-269	/	\$0	
JNCET TECHNOLOGIES CHEMICAL SYSTEMS DIV	EDER	/	/	/	/	\$0	
PHOTOCHEMICAL SYNTHESIS AND CHARACTERIZATION OF TOCHELL INTER. RESEAR-DEVE. CENTER	SEDER	N	16/07/90 \$100,000	SURGGRAF 90-NC-263	/	\$0	
PRODUCING MOLECULAR COMPOSITES EXHIBITING SUPERIOR MECHANICAL AND OPTICAL PROPERTIES	STEIN	RICHARD	N	08/08/90 \$50,023	HEDBERG 90-NC-296	/	\$0
UNIV OF MASSACHUSETTS			/	/	/	\$0	
SYNTHESIS OF NEW ATRANE SYSTEMS: THERMALLY STABLE LIQUID AND SOLID POLYMERS, POLYMERIC CERAMIC PRECURSORS, MOULD AGENTS & NLO MA	VERKADE	JOHN	Q	26/07/90 \$293,325	HEDBERG 90-NC-293	/	\$0
ICDA STATE UNIV OF SCIENCE AND TECH			/	/	/	\$0	
FORMATION AND IDENTIFICATION OF HIGH ENERGY LINEAR AND CYCLIC NC N-4-9 POLYMERS	SYELSON	ALAN	N	16/07/90 \$94,002	SURGGRAF 90-NC-270	/	\$0
AT RESEARCH INSTITUTE			/	/	/	\$0	
ALC PROPERTIES OF CONJUGATED MOLECULES AND POLYMERS	COLMAN	N	12 02/09/90 \$101,045	ULRICH 90-NC-292	/	\$0	
PRINCETON UNIVERSITY	COOK	/	/	/	/	\$0	
CLOUDS--THEIR PREDICTION AND SIMULATION	COTTON	WILLIAM	N	12 20/08/90 \$173,467	STOBIE 90-NC-303	/	\$0
COLORADO STATE UNIVERSITY			/	/	/	\$0	

REPORT DATE 13/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 29 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

TITLE TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE 10T AMT		PAGE 6
				/	/	
STRAINED LAYER SUPERLATTICE OXIDE LUBRICANTS	HODGEY	N 12 31/07/90 \$247,310	BURGGRAF 90-NC-289	/	/	\$0
JAK STAGE NATIONAL LAB	HICKEE	N 12 21/09/90 \$25,000	HEDBERG 90-NC-311	/	/	\$0
WORKSHOP ON DESIGN AND PROCESSING OF MATERIALS IN INDIA	MARSHALL	N 09 30/07/90 \$50,000	HEDBERG 90-NC-236	/	/	\$0
UNIV OF WASHINGTON	SARIKAYA	N 12 25/07/90 \$116,632	BURGGRAF 90-NC-248	/	/	\$0
PHASE TRANSFER CATALYTIC NUCLEOPHILIC ADDITION REACTIONS SYNTHESIS OF POLYMERS AND ACETYLENE TERMINATED RESINS	YESH	N 09 30/07/90 \$50,000	HEDBERG 90-NC-236	/	/	\$0
DEUTERIUM CORPORATION - VLSIOL AEROSPACE DIV	SACHDEVA					
THEORETICAL STUDIES OF THE DYNAMICS OF CONDENSED PHASE HIGH ENERGY DENSITY MATERIALS	GREGORY	N 12 16/07/90 \$116,632	BURGGRAF 90-NC-248	/	/	\$0
UNIV OF PENNSYLVANIA	VOTH					
THEORETICAL STUDIES OF THE DYNAMICS OF CONDENSED PHASE HIGH ENERGY DENSITY MATERIALS	GREGORY	N 12 16/07/90 \$116,632	BURGGRAF 90-NC-273	/	/	\$0
UNIV OF PENNSYLVANIA						
MULTIFUNCTIONAL POLYMERIC MATERIALS SYNTHESIS AND CHARACTERIZATION	JAMES	N 12 05/09/90 \$100,547	HEDBERG 90-NC-304	/	/	\$0
VIRGINIA POLYTECHNIC INST & STATE UNIV	MCGRATH					
SYMPSIUM ON SUPRAMOLECULAR ARCHITECTURE IN TWO AND THREE DIMENSIONS	THOMAS	N 06 10/07/90 \$2,000	ULRICH 90-NC-254	/	/	\$0
UNIV OF NEW MEXICO	TRIN					
INTERNATIONAL CONFERENCE ON FRONTIERS OF POLYMER RESEARCH	ZARAS	N 12 16/07/90 \$70,230	ULRICH 90-NC-277	/	/	\$0
STATE UNIVERSITY OF NEW YORK	ZARAS					
WASS SELECTED CLUSTER CHEMISTRY	JAMES	N 12 10/09/90 \$401,300	ULRICH 90-NC-200	/	/	\$0
STATE UNIVERSITY OF NEW YORK	JARVEY					

REPORT DATE: 10/26/90

PROPOSAL STATUS REPORT 1 JUL 70 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE

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TITLE	CNT.	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE DATE
TITLE	CNT.	INVESTIGATOR	AMOUNT	PROPOSAL #		TOT AMT
UTILIZATION OF SUPERCritical FLUIDS AS SOLVENTS FOR ANIONIC POLYMERIZATIONS: A NOVEL ROUTE TO MOLECULAR ENGINEERED MATERIALS	N 12	JOSEPH HEDBERG	\$25/07/90 \$372,324	90-NC-314	/	\$0
A MECHANISTIC EVALUATION OF CARBON MATRIX OXIDATION PROTECTION	N 12	BURGGRAF	18/07/90 \$246,000	90-NC-230	/	\$0
PRODUCTION AND CHARACTERIZATION OF HIGH-ENERGY HYPERVAPIDIC ACIDS IN THE CONDENSED PHASE	N 12	EDWARD BROWN	16/07/90 \$211,662	90-NC-265	/	\$0
DYNAMICS OF ENERGETIC SPECIES IN CONDENSED PHASES	N 12	EDWARD GRANT	16/07/90 \$100,000	90-NC-276	/	\$0
COMPUTATIONAL PHYSICS, INC	P	SATHINATHAN				
APPLICATIONS OF SECOND HARMONIC AND SUM FREQUENCY GENERATION TO IRONITE AND SILICA TYPE INTERFACES	R 12	KENNETH EISENTHAL	06/07/90 \$161,822	HEDBERG	/	\$0
COLUMBIA UNIVERSITY				90-NC-250		\$0
THEORY AND EXPERIMENTS ON CHEMICAL INSTABILITIES	N 12	JOHN ROSS	12/07/90 \$164,396	WODARCZYK	/	\$0
STANFORD UNIVERSITY				90-NC-256		\$0
SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF NEW LIGHT ELEMENT INORGANIC FLUORIDE OXIDERS AND RELATED DERIVATIVES	N 12	KENNETH EISENTHAL	16/07/90 \$153,767	JURGRAF	/	\$0
FRASER UNIVERSITY	G			90-NC-268		\$0
100SECOND LASER STUDIES OF CHEMICAL INTERMEDIATES	R 36	KENNETH EISENTHAL	02/09/90 \$60,000	HEDBERG	/	\$0
COLUMBIA UNIVERSITY				90-NC-294		\$0
FIRST INTERNATIONAL WORKSHOP ON MATERIALS PROCESSING AT HIGH GRAVITY	N 12	WILLIAM WILLCOX	25/09/90 \$47,301	HEDBERG	/	\$0
CLARKSON UNIVERSITY				90-NC-312		\$0

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 39 - 10 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF CHEMICAL AND ATMOSPHERIC SCIENCES

PAGE 8

TITLE TITLE CONT. INSTITUTION	TYPE/MONTHS			STATUS RECEIVED AMOUNT	INITIATE PROGRAM MANAGER PROPOSAL #	START DATE TOT AMT
	TYPE	MONTHS	AMOUNT			
AB INITIO MULTIPERFERENCE CONFIGURATION INTERACTION CALCULATIONS ON DECOMPOSITION PATHWAYS OF HIGH ENERGY DENSITY POLYNITROPOLYAZIDANE JOHNS HOPKINS UNIVERSITY	N	12 10/37/90 3201-155	DURGIRAF 70-NC-267	C4 / / 0		

REPORT DATE 10/26/90

PROPOSAL STATUS REPORT 9 JUL 90 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE	1
TITLE	INITIATE
TITLE CONT-	START DATE
INSTITUTION	TO/T AMT
INVESTIGATOR	TYPE/MONTHS
MECHANISTIC STUDIES OF PRESSURE-ASSISTED SUPERPLASTICITY OF STRUCTURAL CERAMICS	RECEIVED
JUNIV OF MICHIGAN	AMOUNT
CHEN	R 12
I WEI	\$39,470
20/07/90	SCHIOLER
\$39,470	90-NE-214
MAGNETO - OPTICAL PROPERTIES OF QUANTUM STRUCTURES WITH REDUCED DIMENSIONALITY	N 36
EMORY UNIVERSITY	A
3AJAJ	23/07/90
KRISHNAY	\$399,328
23/07/90	POMRENKE
\$399,328	90-NE-215
SEVENTH WORLD CONFERENCE ON TITANIUM	N 20
IDAHO UNIVERSITY	A
FROES	26/07/90
F	\$10,000
10/01/91	ROSENSTEIN
90-NE-216	\$10,000
AIR SPEED AMPLIFIER FOR OPTICAL COMPUTING	N 36
UNIV OF COLORADO	CRAIG
BARNES	02/08/90
FRANK	\$581,381
90-NE-219	/
GROWTH AND STRUCTURE OF NBE-DEPOSITED IRIDIUM SILICIDE	N 36
JUNIV OF ARIZONA	POMRENKE
FALCO	16/08/90
CHARLES	\$504,458
90-NE-224	/
AN INTEGRATED ELECTRO-OPTIC PACKET NODE CONTROL	N 36
UNIV OF COLORADO	CRAIG
JORDAN	16/08/90
HARRY	\$239,418
90-NE-225	/
CONNECTIONIST MODELS FOR INTELLIGENT COMPUTATION	N 36
JUNIV OF MARYLAND	SUDDAARTH
CHEN	23/08/90
H	\$654,654
90-NE-229	/
THE CORAL JABLES WORKSHOP ON ELECTRONIC STRUCTURE AND MECHANISMS FOR HIGH TEMPERATURE SUPERCONDUCTIVITY	N 07
UNIV OF MIAMI	D
ASHKENAZI	37/09/90
JOSEF	\$9,900
90-NE-234	/
COMPUTATIONAL-ANALYTIC APPROACH TO MANY-BODY PHYSICS AND HIGH TEMPERATURE SUPERCONDUCTIVITY	N 16
UNIV OF MIAMI	D
ASHKENAZI	07/09/90
JOSEF	\$490,370
90-NE-235	/

REPORT DATE 17/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 10 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 2

TITLE TITLE CONT. INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
NUAST-EBALLISTIC TRANSPORT AND QUANTUM-MECHANICAL TRANSPORT IN ULTRA-SMALL AND HIGH-SPEED Si-JE FETS UNIV OF MINNESOTA	STEPHEN CHIU	N 36 19/09/90 \$430,751	WITT 90-NE-237	/ / \$0
WORKSHOP ON FUNDAMENTALS OF CARBON/CARBON NATIONAL INST. OF STANDARDS & TECHNOLOGY	DAVID CRAMER	N 02 08/08/90 \$12,050	A SCHIOLEZ 90-NE-220	\$12,050 01/11/90 \$12,050
ALL OPTICAL APPROACHES TO WAVELENGTH ENCODED COMMUNICATION, SWITCHING, AND COMPUTING SYSTEMS - DEVICES AND MATERIALS STUDIES JNIV OF SOUTHERN CALIFORNIA	P	N 36 21/08/90 \$789,308	CRAIG 90-NE-227	/ / \$0
ULTRAFAST PHYSICS INVESTIGATION OF SIX YEARS SPACE EXPOSED LDEF AND NATIVE CONTROL SEMICONDUCTOR AND LASER MATERIALS ALFANO CITY COLLEGE - CUNY	ROBERT ALFANO	N 36 03/07/90 \$548,072	D WITT 90-NE-207	/ / \$0
ALL OPTICAL BEAM DEFLECTORS BASED ON AN INDUCED AREA MODULATION IN NONLINEAR MATERIALS CITY COLLEGE - CUNY	ROBERT ALFANO	N 36 16/07/90 \$429,226	CRAIG 90-NE-207	/ / \$0
THE FOURTH INTERNATIONAL SYMPOSIUM ON Si-3ASED MOLECULAR BEAM EPITAXY UNIV OF CALIFORNIA	KANG WANG	N 06 16/08/90 \$80,000	POMRENKE 90-NE-223	/ / \$0
POWER AND ELECTRICAL AND FAR-INFRARED PROPERTIES OF WIDE ELECTRON WELLS IN SEMICONDUCTORS UNIV OF CALIFORNIA	ARTHUR JOSSARD	R 36 21/08/90 \$551,522	A WITT 90-NE-226	\$126,451 01/02/91 \$384,774
STUDIES OF NONLINEAR OPTIC INTERACTION OF COUNTER-PROPAGATING GUIDED WAVES FOR PERFORMING LOGIC FUNCTIONS IN OPTICAL COMPUTING UNIV OF CALIFORNIA	SHIH H WANG	N 36 26/09/90 \$468,000	CRAIG 90-NE-239	/ / \$0
ATOMIC LAYER EPITAXY OF SEMICONDUCTOR HETEROSTRUCTURES NORTH CAROLINA STATE UNIVERSITY	SALAH ESDAII	N 36 16/07/90 \$399,135	POMRENKE 90-NE-211	/ / \$0

TITLE TITLE CONT. INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
A STUDY OF OPTIONS FOR AN AFOSR FAR EAST OFFICE TECHNOLOGY INTERNATIONAL, INC.	BLOOM	N 06 20/07/90 \$1,500	A WITT 90-ME-213	\$1,500 01/08/90 \$1,500
NUMERICAL STUDIES OF LOW TEMPERATURE GALLIUM ARSENIDE BUFFER LAYERS AND THEIR INFLUENCE ON DEVICE OPERATION	JUSTIN HAROLD	N 36 31/08/90 \$360,439	A WITT 90-ME-231	190,150 01/02/91 \$360,439
SUBSIDY FOR THE PURCHASE OF EQUIPMENT FOR THE FABRICATION OF POLY(1,4-PHENYLENE TEREPHTHALIMIDE) POLYMER	GRUBIN			
PERSISTANT PHOTOCAPACITIVITY IN Ti-VI MIXED SEMICONDUCTORS RELATED TRANSITIONS & NOVEL OPTO-ELECTRONIC DEVICES	JIANG HONGXING	N 36 07/09/90 \$224,059	CRAIG 90-ME-233	\$0 / \$0
ANALYSIS OF PROCESS INDUCED DEFECTS IN FORGINGS AND EXTRUSIONS	VAN TUYE C	N 36 04/09/90 \$278,463	ROSENSTEIN 90-ME-232	\$0 / \$0
SCANNED PROBED MICROSCOPES STM AND BEYOND	ALEXANDER KORYEK	N 05 16/07/90 \$10,000	A WEINSTOCK 90-ME-206	\$10,000 01/12/90 \$10,000
UNITED ENGINEERING TRUSTEES INC				
MICROSTRUCTURAL DESIGN THROUGH PRECERAMIC POLYMER CHEMISTRY	STUART SCHWAB	N 16 16/07/90 \$393,751	SCHWADER 90-ME-212	\$0 / \$0
SOUTHWEST RESEARCH INSTITUTE				
WSRS SYMPOSIUM ON ADVANCED TOMOGRAPHIC IMAGING METHODS FOR THE ANALYSIS OF MATERIALS	JOHNSON	N 12 02/07/90 \$3,780	SCHWADER 90-ME-201	\$3,870 15/10/90 \$3,870
MATERIALS RESEARCH SOCIETY				
HIGH TEMPERATURE ORDERED INTERMETALLIC ALLOYS IV	JOHNSON	N 09 03/07/90 \$5,000	ROSENSTEIN 90-ME-203	\$5,000 30/09/90 \$5,000
MATERIALS RESEARCH SOCIETY	JOHNSON			
ELECTRONIC, OPTICAL AND DEVICE PROPERTIES OF LAYERED STRUCTURES	JOHNSON	N 12 27/08/90 \$3,000	D POMRENKE 90-ME-228	\$0 / \$0
MATERIALS RESEARCH SOCIETY				

REPORT DATE 10/26/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

PAGE 4

TITLE	CONT. INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER & PROPOSAL #	INITIATE START DATE TOT AMT
EIGHTEENTH ANNUAL CONFERENCE ON THE PHYSICS AND CHEMISTRY OF SEMICONDUCTOR INTERFACE ROCKWELL INTERNATIONAL, SCIENCE CENTER	GRANT	q	N 06 08/09/90 \$8,400	A POMRENKE 90-NE-221	\$8,400 15/01/91 \$8,400
PROCESSING - PROPERTY RELATIONSHIPS IN ADVANCED INTERMETALLICS	ROCKWELL INTERNATIONAL, SCIENCE CENTER	HARDWICK DALLAS	N 36 19/09/90 \$459,920	A ROSENSTEIN 90-NE-236	\$0 / / \$0
MOLECULAR BEAM EPITAXY GROWN OXIDES - A NEW CLASS OF CERAMICS	JACK RIDGE NATIONAL LAB	RODNEY MCKEE	N 36 16/07/90 \$830,561	A SCHIOLER 90-NE-210	\$220,000 01/10/90 \$630,561
ACCURACY ENHANCEMENT IN OPTICAL COMPUTING	TEXAS TECH UNIVERSITY	WALKUP JOHN	N 36 02/07/90 \$551,693	A CRAIG 90-NE-202	\$0 / / \$0
HIGH TEMPERATURE SUPERCONDUCTING FILMS & MULTILAYERS FOR ELECTRONICS	WESTINGHOUSE ELECTRIC CORPORATION	JAVALER	N 36 29/08/90 \$899,393	A WEINSTOCK 90-NE-230	\$299,986 01/01/71 \$899,998
HIGH TEMPERATURE SUPERCONDUCTING FILMS AND CRYSTALS	STANFORD UNIVERSITY	SEBALLE	R 36 16/07/90 \$599,991	A WEINSTOCK 90-NE-209	\$199,995 31/12/90 \$599,991
HOLOGRAPHIC DATA STORAGE IN PHOTOREFRACTIVES	STANFORD UNIVERSITY	LAMBERTUS HESSELINK	N 36 26/09/90 \$391,628	CRAIG 90-NE-218	\$0 / / \$0
MATERIAL ENGINEERING OF NOVEL SEMICONDUCTOR STRUCTURES	JOHNS HOPKINS UNIVERSITY	JACOB KHURGIN	R 36 01/04/90 \$480,100	A CRAIG 90-NE-213	\$162,000 15/01/91 \$480,100

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF LIFE SCIENCES

PAGE 1

TITLE INSTITUTION	TITLE CONT. INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
				36	36
CONTEXT AND REPROCESSING FLUENCY				/	/
UNIV OF TORONTO	MACLEOD COLIN	N 03/07/90 \$326,862	FREGLY 90-NL-173	\$0	\$0
MECHANISMS OF BRIGHTNESS PERCEPTION AND FILLING-IN					
BROWN UNIVERSITY	PARADISO MICHAEL	N 01/08/90 \$332,163	TANGNEY 90-NL-186	\$0	\$0
STATES AND DYNAMICS OF VISUAL ATTENTION					
UNIV OF NEBRASKA	FLOWERS JOHN	N 13/08/90 \$137,341	FREGLY 90-NL-189	\$0	\$0
4DENOCLONAL ANTIBODY DETECTION OF CHLORINATED SEMIENES ON CONTAMINATED SEDIMENTS					
JNIV OF MISSOURI	HASSMAN DEBORAH	N 19/09/90 \$1290,349	CERVENY 90-NL-210	\$0	\$0
IN SITU BIODEGRADATION OF VITROAROMATIC COMPOUNDS IN SOIL					
IDAHO UNIVERSITY	CRAWFORD RONALD	N 19/09/90 \$1290,752	CERVENY 90-NL-212	\$0	\$0
INCORPORATION OF MINERAL SURFACES AND NATURE OF ORGANIC CONTENT IN TO A FUNDAMENTAL UNDERSTANDING SORPTION OF NONIONIC ORGANICS					
JNIV OF OKLAHOMA	SABATINI DAVID	N 19/09/90 \$379,770	CERVENY 90-NL-219	\$0	\$0
MOLECULAR CLONING AND ANALYSIS OF DIOXIN REGULATED GENES					
JNIV OF ARKANSAS	HARRISON, III ROBERT	N 19/09/90 \$514,594	CERVENY 90-NL-220	\$0	\$0
TRANSPORT OF SUBSURFACE CONTAMINANTS BY GROUND WATER COLLOIDS					
IDAHO UNIVERSITY	VON WANDRUSZKA RAY	N 19/09/90 \$303,938	CERVENY 90-NL-222	\$0	\$0
AEROSOL CHEMICAL PROPERTIES AND ENVIRONMENTAL FACTORS EFFECTS					
CLARK COLLEGE	STELSON ARTHUR	N 19/09/90 \$293,650	CERVENY 90-NL-226	\$0	\$0

REPORT DATE 10/24/90	PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90	PAGE 2
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF LIFE SCIENCES		
TITLE	INVESTIGATOR	INITIATE
TITLE CONT-		START DATE
INSTITUTION		TOT AMT
NEW POLYAMIDES AND POLYAMIDINES FOR SELECTIVE METAL CHÉLATION	DOUGLAS SMITH	\$0
JNIV OF TOLEDO		
STUDIES ON THE UPTAKE, ACCUMULATION AND TRANSFORMATION OF CHLORINA TED PHENOLS BY THE AQUATIC ANGIOSPERM, LEMNA GIASSA BARBER TULANE UNIVERSITY	JOHN CARL	\$0
CHARACTERIZATION OF HETEROGENEITIES CONTROLLING TRANSPORT AND FATE OF POLLUTANTS IN UNCONSOLIDATED SAND AND GRAVEL AQUIFERS MCELVEE JNIV OF KANSAS		
THE FATE OF A MIXTURE OF AN ORGANIC ARSENICAL TSMA AND A PHEOXYA CETIC ACID 2-AD AMINE, IN THE ENVIRONMENT ADELGHANI TULANE UNIVERSITY	ASSAF	\$0
CRUSTACEAN MODELS FOR STUDYING THE EFFECTS OF NAPHTHALENE FINGERMAN TULANE UNIVERSITY	MILTON	\$0
OPTIMAL STRATEGY FOR RECOVERY OF FREE PRODUCT HYDROCARBONS JANAKULE TEXAS COLLEGE	NISAI	\$0
HEAVY METALS THEIR EFFECT ON THE MANGROVE FERN ACROSTICHUM AND ITS MECHANISM FOR SALT TOLERANCE PETERSON HOWARD UNIVERSITY	RAYMOND	\$0
TOXIC METAL MIGRATION THROUGH SOILS WILEY UNIV OF TEXAS	JOHN	\$0
A NEW APPROACH TO THE DETERMINATION OF BIOAVAILABLE METALS IN SURFACE WATERS JNIV OF WYOMING	BERGMAN HAROLD	\$0

TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	PROPOSAL #	
AMOUNT				
N 36 19/09/90 \$304,299	CERVERNY		90-NL-227	\$0
N 36 20/09/90 \$381,062	CERVERNY		90-NL-231	\$0
N 36 21/09/90 \$319,786	CERVERNY		90-NL-235	\$0
N 36 21/09/90 \$891,390	CERVERNY		90-NL-237	\$0
N 36 21/09/90 \$296,448	CERVERNY		90-NL-239	\$0
N 16 21/09/90 \$100,096	CERVERNY		90-NL-240	\$0
N 36 21/09/90 \$397,395	CERVERNY		90-NL-243	\$0
N 36 21/09/90 \$223,655	CERVERNY		90-NL-245	\$0
N 36 24/09/90 \$339,250	CERVERNY		90-NL-249	\$0

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT JUL 90 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF LIFE SCIENCES

PAGE 3

TITLE	TYPE/AMOUNT	STATUS	PROGRAM MANAGER	INITIATE
TITLE CONT.	RECEIVED	PROPOSAL #	PROPOSAL #	START DATE
INSTITUTION	AMOUNT			TO TOT AMT
IMPACT OF NUTRIENT LIMITATION ON BIOACCUMULATION OF LIPOPHILIC XENOBIOLOGICS IN PLANKTONIC FOOD WEBS	N 36 24/09/90 \$357,771	CERVANT 90-NL-252	/	\$0
TEXAS COLLEGE	ALAN GROEGER			\$0
PROCESSES CONTROLLING COLLOID-FACILITATED TRANSPORT OF CONTAMINANTS TO SUBSURFACE ENVIRONMENTS	N 36 24/09/90 \$626,610	CERVANT 90-NL-253	/	\$0
UNIV OF GEORGIA	WILLIAM MILLER			\$0
ENVIRONMENTAL TOXICOLOGY A MARKER FOR NEPHROTOXIC ENVIRONMENTAL CONTAMINANTS	N 36 20/09/90 \$313,211	CERVANT 90-NL-252	/	\$0
UNIV OF MARYLAND, BALTIMORE CAMPUS	RENATE REINSCHNEIDER			\$0
EXPRESSION OF PROTEIN SYNTHESIS IN ENVIRONMENTAL STRESS	N 36 24/09/90 \$559,774	CERVANT 90-NL-248	/	\$0
UNIV OF MARYLAND, BALTIMORE CAMPUS	BRIAN BRADLEY			\$0
APPLICATIONS OF CHEMICAL REACTION INTERFACE/MASS SPECTROMETRY TO PROBLEMS IN ECOTOXICITY	N 36 24/09/90 \$500,248	CERVANT 90-NL-251	/	\$0
GEORGE WASHINGTON UNIVERSITY	FRED ABRAMSON			\$0
PREDICTING WHAT PEOPLE LEARN FROM EXAMPLES	N 36 18/09/90 \$188,650	FREGLY 90-NL-203	/	\$0
GEORGIA INSTITUTE OF TECH	RICHARD CATRAMONE			\$0
CNS ACTION OF MELATONIN ON BRAIN AROUSAL STATE	N 36 27/07/90 \$240,964	HADDAD 90-NL-185	/	\$0
CALIFORNIA STATE UNIVERSITY	TONI STANTON			\$0
ANATOMY AND PHYSIOLOGY OF THE STARTLE RESPONSE	N 60 03/07/90 \$994,357	BERRY 90-NL-175	/	\$0
UNIV OF CALIFORNIA	JEROME SIEGEL			\$0
MODELING SENSORIMOTOR ADAPTATION IN HUMAN-MACHINE SYSTEMS	N 36 17/08/90 \$437,454	TANGNEY 90-NL-190	/	\$0
UNIV OF CALIFORNIA	LAURENCE STARK			\$0

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED	PROGRAM MANAGER	STATUS	INITIATE START DATE
TITLE CONT.		AMOUNT	PROPOSAL #		TOT AMT
INSTITUTION					\$0
PERCEPTUAL INFORMATION PROCESSING	AN OBSERVER-THEORETIC INVESTIGATION	N 36 20/05/90 \$251,773	TANGNEY 90-NL-193	/	\$0
JUNIV OF CALIFORNIA	HOFFMAN DONALD				
TRANSPORT AND BIODEGRADATION OF VOLATILE ORGANIC CHEMICALS IN THE					
VADOSE ZONE: EFFECTS OF SPATIAL HETEROGENEITY	KATE	19/09/90 \$375,000	CERVENY 90-NL-218	/	\$0
UNIV OF CALIFORNIA					
BIO-MARKERS OF EXPOSURE MOLECULES TO ECOSYSTEM					
UNIV OF CALIFORNIA	WILSON BARRY	19/09/90 \$354,022	CERVENY 90-NL-225	/	\$0
UNIV OF CALIFORNIA					
USE OF GLUTATHIONE S-TRANSFERASE IN MICROBIAL DEGRADATION OF HALOAROMATICS	SYVANEN MICHAEL	21/09/90 \$516,456	CERVENY 90-NL-236	/	\$0
UNIV OF RHODE ISLAND					
THE ROLE OF RESUSPENDED SEDIMENTS IN THE TRANSPORT AND BIOACCUMULATION OF TOXIC ORGANIC CONTAMINANTS IN NEARSHORE MARINE ENVIRONMENT	JAMES LATIMER	N 24 19/09/90 \$238,968	CERVENY 90-NL-207	/	\$0
UNIV OF RHODE ISLAND					
FATE AND TOXICITY OF ORGANIC CONTAMINANTS IN SEDIMENTS	GARDINGER AMY	24/09/90 \$339,547	CERVENY 90-NL-255	/	\$0
UNIV OF RHODE ISLAND					
INTERSPECIES EXTRAPOLATIONS OF HALOCARBON RESPIRATORY AND TISSUE KINETICS: APPLICATIONS TO PREDICTING TOXICITY IN DIFFERENT SPECIES	CHAM	R 36 04/09/90 \$453,678	CERVENY 90-NL-199	/	\$0
GEORGIA UNIV RESEARCH FOUNDATION INC					
IN VIVO ANEUPLOIDY ASSAY IN SOMATIC AND GERM CELLS OF MICE	SUDI RAJADEVI	N 36 13/09/90 \$329,753	CERVENY 90-NL-188	/	\$0
SETEK RESEARCH LABORATORIES					
IMPRESS AND DECISION MAKING IN A COMMUNICATIONS CONTEXT	SCHMIDT-NELSON ASTRID	N 36 18/09/90 \$622,414	FREGLY 90-NL-202	/	\$0
NAVAL RESEARCH LABORATORY					

TITLE TITLE CONT. INSTITUTION	INVESTIGATOR	TYPE/MONTHS		STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
		RECEIVED AMOUNT	PROPOSAL #		
BIOMARKERS OF ENVIRONMENTAL CONTAMINATION FOR ASSESSING POLLUTION	N 24 JIMENEZ	21/09/90 \$470,362	CERVENY 90-NL-234	/ / \$0	
THE CELLULAR/MOLECULAR EFFECTS OF INSECTICIDES AND POLYCHLORINATED DIPHENYLS ON FISH REPRODUCTION	N 36 SOETZ	20/09/90 \$428,670	CERVENY 90-NL-233	/ / \$0	
NATURE OF PESTICIDES RESIDUES SOUND TO HUMAN	N 36 RICE	21/09/90 \$323,439	CERVENY 90-NL-238	/ / \$0	
MOVEMENT OF 2,4-D THROUGH RIGHT-OF-WAY DITCH SOILS	N 24 SHARON	21/09/90 \$152,693	CERVENY 90-NL-242	/ / \$0	
COGNITION IN THE BRAIN INVESTIGATIONS USING POSITRON EMISSION TO	N 12 ALPERT	17/07/90 \$25,390	A FREGLY 90-NL-179	\$25,390 01/11/90 \$25,390	
ATTOMOLE LEVEL DETECTION OF DNA ADDUCTS BY MASS SPECTROMETRY	N 36 GIESE	19/09/90 \$420,083	CERVENY 90-NL-209	/ / \$0	
IN SITU SEDIMENT TOXICITY TESTING WITH INDICATOR SPECIES	N 36 BURTON, JR	19/09/90 \$312,998	CERVENY 90-NL-221	/ / \$0	
MICROBIAL MEDIATION OF HEAVY METAL TOLERANCE IN PLANTS	N 36 HETERICK	24/09/90 \$508,948	CERVENY 90-NL-247	/ / \$0	
POSTSYNAPTIC LONG-TERM DEPRESSION OF MASSY FIBER AFFERENTS TO THE CA3 SUBFIELD OF THE HIPPOCAMPUS	N 36 BARRIONUEVO	11/07/90 \$107,569	HADDAD 90-NL-177	/ / \$0	
UNIV OF PITTSBURGH	GERMAN				

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF LIFE SCIENCES

PAGE 6

TITLE TITLE CONT. INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
				\$0	\$0
THERMODYNAMICALLY CORRECT BIOAVAILABILITY ESTIMATIONS	JOHN DORSEY	N 36 21/09/90 \$410,925	CERVENY 90-NL-244	/	/
UNIV OF CINCINNATI					
DEFINITION AND POSSIBLE AMELIORATION OF THE PHOTOTOXICITY OF UV-A AND BLUE LIGHT ON THE RETINAL PIGMENT EPITHELIUM PAUTLER COLORADO STATE UNIVERSITY	EUGENE R	R 36 27/08/90 \$614,012	CERVENY 90-NL-195	\$0	\$0
CRAIG					
DEGRADATION OF BENZENE AND 1,4 DICHLOROBENZENE BY BACILLUS STEAROT AEROMPHILUS 9A316	ORIEL PATRICK	N 24 29/08/90 \$157,390	CERVENY 90-NL-197	\$0	\$0
MICHIGAN STATE UNIVERSITY					
THE EFFECTS OF DESORPTION ON THE ANAEROBIC BIODEGRADATION OF HALO-ENATED COMPOUNDS CRIDDLE	CRAIG	N 36 19/09/90 \$451,157	CERVENY 90-NL-213	\$0	\$0
OKLAHOMA STATE UNIVERSITY					
WILD MAMMALIAN BIOMONITORS FOR ASSESSING IMPACTS OF ENVIRONMENTAL CONTAMINATION ON POPULATION AND COMMUNITY ECOLOGY LOCHMILLER III	ROBERT	N 36 24/09/90 \$448,784	CERVENY 90-NL-254	\$0	\$0
OKLAHOMA STATE UNIVERSITY					
CLAY-HUMIC ACID SOFTENING OF ARENES FROM ALKANE-WATER 3-PHASIC SOLVENTS	ANDERSON SHARON	N 36 24/09/90 \$208,236	CERVENY 90-NL-256	\$0	\$0
MICHIGAN STATE UNIVERSITY					
RESEARCH IN TOXICOLOGY PRESENTED BY AND FOR MINORITIES SOCIETY OF TOXICOLOGY	EMRICH MARION	N 12 11/07/90 \$5,000	CERVENY 90-NL-176	\$0	\$0
SOCIETY OF TOXICOLOGY					
THE PROCESS OF TIME-PRESSED DECISION MAKING	QUNT EARL	N 36 27/08/90 \$335,698	FREGLY 90-NL-194	\$0	\$0
JUNIV OF WASHINGTON					
DEVELOPMENT OF TECHNIQUES FOR THE EVALUATION OF TOXICANT IMPACTS I J MULTISPECIES SYSTEMS	LANDIS WAYNE	N 36 24/09/90 \$357,153	CERVENY 90-NL-246	\$0	\$0
WESTERN WASHINGTON UNIVERSITY					

TITLE	CONT. INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	START DATE TOT AMT	INITIATE
IMPROVED PERFORMANCE EVALUATION ON COMPLEX TASKS THROUGH THE INCORPORATION OF RESPONSE SPEED INTO ABILITY ESTIMATES	EDUCATIONAL TESTING SERVICE BEIJAR	ISAAC	N 12 29/08/90 \$49,394	TANGNEY 90-NL-198	/ / \$0	
IMPLICIT AND EXPLICIT LEARNING	LOUISIANA STATE UNIVERSITY	STADLER	N 24 20/09/90 \$171,775	FREGLY 90-NL-228	/ / \$0	
SORPTION OF TOXIC METALS onto IRON SULFIDES	STATE UNIVERSITY OF NEW YORK NAPOLI	SHOONEN	N 36 19/09/90 \$311,737	CERVERNY 90-NL-208	/ / \$0	
HISTOKIN TOXICITY AND RETINOIDS	STATE UNIVERSITY OF NEW YORK	JOSPEH	N 36 19/09/90 \$607,687	CERVERNY 90-NL-215	/ / \$0	
THE RELATIONSHIP BETWEEN DIATOM LIFE CYCLE STAGES AND THE DEVELOPMENT OF RESISTANCE TO ORGANIC POLLUTANTS	STATE UNIVERSITY OF NEW YORK	COSPER	N 36 21/09/90 \$487,206	CERVERNY 90-NL-241	/ / \$0	
HISTAMINERGIC M ₁ RECEPTORS AND CORTICAL AROUSAL	UNIV OF BRITISH COLUMBIA	REINER	N 36 20/08/90 \$300,975	HADDAD 90-NL-196	/ / \$0	
Mechanism of Lethal Interaction of Hazardous Chemicals at Subtoxic Doses	UNIV OF MISSISSIPPI MEDICAL CENTER	MEHENDALI	R 36 \$6,800,000	CERVERNY 90-NL-187	/ / \$0	
HYPobaric Decompression Sickness Workshop	JSAF-SCHOOL OF AEROSPACE MEDICINE	SILMANIS	N 12 10/08/90 \$10,000	A 90-NL-200	\$10,000 01/10/90 \$10,000	
THE EFFECTS OF HALOGENATED HYDROCARBONS ON AQUATIC ORGANISMS	ALA ALM UNIVERSITY	ALGA	N 16 17/08/90 \$390,525	CERVERNY 90-NL-191	/ / \$0	
TADPOS	MAHASIN	TADPOS				

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF LIFE SCIENCES

PAGE 8

TITLE	TITLE CONT. INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER?	PROPOSAL #	INITIATE START DATE	TOT AMT
MOLECULAR GENETIC ANALYSIS OF ANTIOXIDANT DEFENSE SYSTEMS IN A EUC ARYOTE	WAYNE STATE UNIVERSITY	ARKING	ROBERT	N 36 19/09/90 \$484,372	CERVERY	/	\$0
1991 GORDON RESEARCH CONFERENCE ON NEURAL PLASTICITY	CASE WESTERN RESERVE UNIVERSITY	ZIGMOND	RICHARD	N 06 18/09/90 \$5,000	HADDAD	/	\$0
REPRESENTATIONAL TRANSFER IN PROBLEM SOLVING	VANDERBILT UNIVERSITY	NOVICK	LAURA	N 36 18/09/90 \$228,770	FREGLY	/	\$0
STREAM BENTHIC ALGAL COMMUNITY COMPOSITION UNDER NATURAL AND CHEMICAL PERTURBATIONS	KENT STATE UNIVERSITY	CARLSON	ROBERT	N 36 19/09/90 \$403,733	CERVERY	/	\$0
HYDROPHOBIC POLLUTANT PARTITIONING WATER, COLLOIDS, SOLIDS	KENT STATE UNIVERSITY	LABANISS	STEPHEN	N 36 19/09/90 \$336,113	CERVERY	/	\$0
USE OF SIMULATION OF THE HUMAN CENTRAL FOVEA TO DETERMINE RESOLUTI: ON AND MAXIMIZING VISUAL DISPLAYS	DORTMUND UNIV--INST / ARGEKTS PHYSIOLOGIE	SIMINOFF	ROBERT	N 36 17/08/90 \$171,540	TANGNEY	/	\$0
INVESTIGATION OF DICHLOROBENZENE TOXICITY	MARSHALL UNIVERSITY	VALETOVIC	MONICA	N 36 24/07/90 \$229,000	CERVERY	/	\$0
MULTISENSORY INPUTS TO VESTIGULAR VELOCITY STORAGE INVOLVEMENT IN PERFORMANCE OF SPATIAL ORIENTATION TASKS	MANITOBA UNIVERSITY	JELL	RALPH	N 36 19/09/90 \$250,778	HADDAD	/	\$0
DEVELOPMENT OF WIENER THEORY FOR NETWORK ANALYSIS	NEW YORK UNIVERSITY MEDICAL CENTER	NAKA	KEN-ICHI	N 4d 11/07/90 \$502,926	TANGNEY	/	\$0
				N 36 19/09/90 \$229,000	90-NL-192		\$0
				N 36 19/09/90 \$250,778	90-NL-205		\$0
				N 4d 11/07/90 \$502,926	90-NL-178		\$0

REPORT DATE 10/26/90 PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF LIFE SCIENCES

PAGE 9

TITLE	TITLE CONT.	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE START DATE
INSTITUTION			AMOUNT	PROPOSAL #		TOT AMT
ENVIRONMENTAL EFFECTS IN MICROBIAL BIOTRANSFORMATION OF TOXIC SUBSTANCES	STATES UNIV OF CONNECTICUT	COUGHLIN ROBERT	N 36 19/09/90 \$512,966	CERVENY 90-NL-211	/ /	\$0
JARRECING CONTROL OF CIRCADIAN RHYTHMS	GEORGIA STATE UNIVERSITY	ALBERS H. ELLIOTT	N 36 03/07/90 \$167,783	BERRY 90-NL-174	/ /	\$0
NEURAL MECHANISMS OF ATTENTION	JOHNS HOPKINS UNIVERSITY	DAVID JULTON	N 18 17/07/90 \$61,157	FREGLY 90-NL-180	\$61,157 01/11/90	\$61,157
MECHANISMS OF HUMAN VISUAL ATTENTION	JOHNS HOPKINS UNIVERSITY	STEVEN YANTIS	N 36 24/07/90 \$197,809	FREGLY 90-NL-181	/ /	\$0
RELATIONSHIP OF SOIL SUCTION TO POLLUTANT DISTRIBUTION IN SOILS	ARIZONA STATE UNIVERSITY	HOUSTON SANDRA	N 36 19/09/90 \$249,483	CERVENY 90-NL-217	/ /	\$0
DEVELOPMENT OF CARBONACEOUS RESIN TEST FOR SOIL ORGANIC CONTAMINANTS	MONTANA STATE UNIVERSITY	SKOGLEY EARL	N 36 20/09/90 \$510,372	CERVENY 90-NL-229	/ /	\$0
VIR ANALOGUE STUDIES OF FATE AND EFFECTS OF ORGANIC MOLECULES	GEORGIA STATE UNIVERSITY	CROW, JR SIDNEY	N 36 20/09/90 \$362,396	CERVENY 90-NL-230	/ /	\$0
PERCEPTION OF COMPLEX AUDITORY PATTERNS	INDIANA UNIVERSITY	WATSON CHARLES	N 36 02/07/90 \$432,659	TANGNEY 90-NL-172	/ /	\$0
DEEP UNDERPRESSURIZED NATURAL HYDRAULIC COMPARTMENTS AS HAZARDOUS WASTE REPOSITORIES	INDIANA UNIVERSITY	ORTOLEVA PETER	N 36 19/09/90 \$489,740	CERVENY 90-NL-214	/ /	\$0

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 20 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF LIFE SCIENCES

PAGE 10

TITLE	CONT.	INVESTIGATOR	TYPE	MONTHS	RECEIVED	STATUS	PROGRAM MANAGER	INITIATE	START DATE	TOT AMT
TITLE	INSTITUTION		AMOUNT		AMOUNT	PROPOSAL #				\$
PERVAPORATIVE DECONTAMINATION OF GROUNDWATER CONTAINING VOLATILE ORGANIC COMPOUNDS	CLEMSON UNIVERSITY	CHARLES GOODING	N	36	19/09/90 \$221,330	CERVENT 90-NL-223	/ /	/	/	30
ZIOCHEMICAL AND MOLECULAR BASIS OF MICROBIAL DEGRADATION OF XENOBIOTICS	JACKSON UNIVERSITY	SATISH WALIA	N	36	24/09/90 \$480,023	CERVENT 90-NL-250	/ /	/	/	30

TITLE	TYPE	MONTHS	STATUS	PROGRAM MANAGER	INITIATE	START DATE	TOT AMT
TITLE	CNTN-	RECEIVED	PROPOSAL #				
INSTITUTION	INVESTIGATOR	AMOUNT					
ROBUST CONTROL OF NONLINEAR SYSTEMS WITH VARIABLES	JAIN SCHEDULING ON FAST	N 36 05/07/90 \$120,159	JACOBS 90-NR-355	/ / / /	/ /	\$0 \$0	
JUNIV OF MINNESOTA	SHAMRA						
STATISTICAL THEORY OF RELIABILITY		R 36 10/07/90 \$242,570	SJOGREN 90-NR-356	/ /	/ /	\$0 \$0	
UNIV OF MISSOURI	JASU						
SAFETY STANDARD DEVELOPMENT FOR ULTRA-SHORT LASER PULSES	ASIT	N 36 10/07/90 \$277,991	NACHMAN 90-NR-357	A		\$96,923 01/12/90	
UNIV OF ARIZONA	MOLONEY						
INTERNATIONAL RESEARCH CONFERENCE ON RELIABILITY		N 12 24/07/90 \$65,410	SJOGREN 90-NR-370	/ /	/ /	\$0 \$0	
UNIV OF MISSOURI	JASU						
DESIGN RULES OF III-CONDITIONED MULTIVARIABLE FEEDBACK SYSTEMS	ASIT	N 24 25/07/90 \$211,320	JACOBS 90-NR-377	/ /	/ /	\$0 \$0	
UNIV OF MICHIGAN	FREUDENBERG						
CONTROL SYSTEM SYNTHESIS USING MULTIPLE NORM OPTIMIZATION	JAMES	N 24 25/07/90 \$138,463	JACOBS 90-NR-378	/ /	/ /	\$0 \$0	
UNIV OF ILLINOIS	PERKINS						
DUAL METHODS IN LARGE SCALE OPTIMIZATION	WILLIAM	N 36 30/07/90 \$651,351	GLASSMAN 90-NR-384	/ /	/ /	\$0 \$0	
UNIV OF FLORIDA	HAGER						
SYSTEMS OF CONVOLUTION EQUATIONS, DECONVOLUTION, AND WAVELETS ANALYSIS	WILLIAM	N 12 06/08/90 \$102,521	NACHMAN 90-NR-387	/ /	/ /	\$0 \$0	
UNIV OF MARYLAND	GERENSTEIN						
MATHEMATICAL PROBLEMS IN TRANSONIC FLOW	CARLOS						
UNIV OF DELAWARE	L.	N 12 06/08/90 \$43,499	NACHMAN 90-NR-389	A		\$32,954 01/12/90	
COK-CIANNIOS							

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE START DATE	TOT AMT	PAGE
A KALMAN FILTERING APPROACH TO STOCHASTIC TOMOGRAPHY	ANDREW YAGLE	R 08/08/90 \$141,146	SJOGREN	90-NM-392	/ /	\$0	2
MULTIPARAMETER BIFURCATIONS AND APPLICATIONS	CARMEN CHICONE	N 14/08/90 \$140,347	HOLLAND	90-NM-400	/ /	\$0	
PARALLEL LOGIC PROGRAMMING AND KNOWLEDGE BASE SYSTEMS	JACK HINKER	N 15/08/90 \$227,348	WAKSHAN	90-NM-401	/ /	\$0	
MICROSCOPIC THEORY OF THE DIELECTRIC RESPONSE OF HIGHLY DISPERSE BIOLOGICAL MEDIA	GIOVANNI VIGNALA	N 15/08/90 \$101,314	NACHMAN	90-NM-403	/ /	\$0	
SAMPLING AND WAVELETS IN ILL-POSED PROBLEMS	K. NASHED	N 15/09/90 \$216,395	NACHMAN	90-NM-404	/ /	\$0	
NEURAL NETWORKS CONTROLLERS FOR UNCERTAIN DYNAMICAL SYSTEMS	ZAK STANISLAW	N 21/08/90 \$141,158	JACOBS	90-NM-407	/ /	\$0	
RESEARCH OF PROGRAMMING LANGUAGES AND SOFTWARE ENGINEERING	VICTOR BASILI	R 21/08/90 \$235,113	HOLLAND	90-NM-408	/ /	\$0	
ADVANCED SCIENTIFIC COMPUTING FOR THE 90'S	DAVID GOTTLIEB	N 21/08/90 \$40,400	NACHMAN	90-NM-411	/ /	\$0	
STUDY OF FEATURES OF BINARY IMAGES USING IMAGE ALGEBRA TECHNIQUES	D. SHATTACHARYA	? 22/09/90 \$420,000	WAKSHAN	90-NM-415	/ /	\$0	
JUNIV OF NEBRASKA	PRABIR						\$0

REPORT DATE 10/26/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

TITLE TITLE CONT. INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
INTEGRATED EXPERT DATABASE SYSTEMS UNIV OF TEXAS	MIRANKER DANIEL	N 36 22/08/90 \$685,627	WAKSMAN 90-NM-416	/ / \$0
DEVELOPMENT OF HIGH ACCURACY APPROXIMATE FACTORIZATION METHODS FOR TRANSIENT FLUID DYNAMICS DAAT RESEARCH	DVINSKY ARKADY	N 36 04/09/90 \$294,620	NACHMAN 90-NM-423	/ / \$0
ASPECTS OF MODELING, IDENTIFICATION AND CONTROL OF DYNAMICAL SYSTEMS UNIV OF MINNESOTA	GEORGIOU TRYPHON	N 36 04/09/90 \$259,086	JACOBS 90-NM-424	\$0 / / \$0
APPLIED ORTHOGONAL POLYNOMIAL PURDUE UNIVERSITY	GAUTSCHI WALTER	N 36 04/09/90 \$331,350	NACHMAN 90-NM-427	/ / \$0 / / \$0
PARALLEL SOLUTION OF LARGE-SCALE STRUCTURED NONLINEAR OPTIMIZATION PROBLEMS UNIV OF MINNESOTA	ROSEN J.	R 24 12/09/90 \$143,973	GLASSMAN 90-NM-431	\$0 / / \$0
COMPETITIVE AND STOCHASTIC PROBLEMS BY VECTOR EXTREMAL METHODS UNIV OF TEXAS	CHARNES A.	N 24 12/09/90 \$112,000	GLASSMAN 90-NM-432	\$0 / / \$0
PLASTIC INSTABILITY PHENOMENA WITH ASPECTS OF CHAOS IN FIXED-EDGE STRUCTURES SUBJECTED TO SHORT PULSE LOADING BROWN UNIVERSITY	SYMONDS P.	N 36 17/09/90 \$177,555	NACHMAN 90-NM-434	\$0 / / \$0
DYNAMIC KNOWLEDGE-BASE APPROACH TO MODELLING SPACEBORNE POWER SYSTEMS UNIV OF TENNESSEE	SVKAT ALEX	N 36 20/09/90 \$349,575	WAKSMAN 90-NM-440	\$0 / / \$0
INDUCTIVE INFERENCE IN INTELLIGENT DATABASE SYSTEMS UNIV OF TENNESSEE / SPACE INSTITUTE	MOONIS ALI	N 36 15/08/90 \$170,436	WAKSMAN 90-NM-402	\$0 / / \$0

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

TITLE TITLE CONT. INSTITUTION	PAGE 4		
	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PROBABILITY AND ALGORITHMS	N 24 12/07/90 \$25,000	A SJOGREN 90-NM-362	\$25,000 01/11/90
NATIONAL RESEARCH COUNCIL	LAWRENCE DIRK JOHN		\$25,000
ASPECTS OF INFERENCE FOR STRENGTH - STRESS MODELS	MOORE DIRK GREGORY	N 36 29/08/90 \$123,968	SJOGREN 90-NM-421
TEMPLE UNIVERSITY SCHOOL OF MEDICINE		N 24 08/08/90 \$100,271	JACOBS 90-NM-391
NUMERICAL SOLUTIONS FOR NONLINEAR EXTREMAL PROBLEMS ASSOCIATED WITH PARTIAL DIFFERENTIAL EQUATIONS	SOUTHERN ILLINOIS UNIVERSITY	N 06 11/09/90 \$17,700	JACOBS 90-NM-430
CONFERENCE ON OPTIMIZATION AND OPTIMAL CONTROL THEORY AND APPLICATIONS	LEDZEWICZ-KOWALEWSKA/URSKA/LA	N 24 17/09/90 \$211,531	GLASSMAN 90-NM-433
SOUTHERN ILLINOIS UNIVERSITY	YORAI WARDI		
SAMPLE PATH ALGORITHMS FOR OPTIMIZATION OF QUEUING NETWORKS	GEORGIA INSTITUTE OF TECH	N 24 30/07/90 \$35,649	GLASSMAN 90-NM-393
COMMUNICATION NETWORK SURVIVABILITY IN A MILITARY ENVIRONMENT	STEVENS INSTITUTE OF TECHNOLOGY	N 36 06/08/90 \$365,300	WAKSMAN 90-NM-390
PARALLEL ARCHITECTURES AND ALGORITHMS FOR IMAGE UNDERSTANDING	UNIV OF SOUTHERN CALIFORNIA	N 36 29/08/90 \$543,308	HOLLAND 90-NM-420
AUTOMATIC SYNTHESIS OF APPLICATION SPECIFIC INTEGRATED SYSTEMS	ASIS UNIV OF SOUTHERN CALIFORNIA	R 36 24/07/90 \$409,225	MACHMAN 90-NM-369
COMPUTATIONAL METHODS IN CONTINUUM MECHANICS	JOLINDRA JORAH		
NORTH CAROLINA A&T STATE UNIVERSITY			

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

TITLE TITLE CONT. INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT			STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
		N	36	05/07/90 \$267,818		
FORMATION OF THREE-DIMENSIONAL SINGULARITIES, REGULARIZATION PROCEDURES & MARKOVIAN-MULTIFRACTAL DESCRIPTION OF TURBULENT FLOWS UNIV OF CALIFORNIA NOVIKOV	EVGENY	R	36	JACOBS 05/07/90 \$356,440	SJOGREN 90-NM-351	\$0 / / \$0
DESIGN OF ROBUST CONTROLLERS FREQUENCY DOMAIN METHODS AND THEIR NON-LINEAR EXTENSIONS JNIV OF CALIFORNIA	HELTON J. WILLIAM	R	27	24/07/90 \$151,673	SJOGREN 90-NM-372	\$0 / / \$0
NONPARAMETRIC METHODS FOR INCOMPLETE DATA IN RELIABILITY AND FOR CHANGEPONTS IN SMOOTH FUNCTIONS UNIV OF CALIFORNIA WANG	JANE-LING	N	12	A 31/07/90 \$74,651	NACHMAN 90-NM-386	\$74,651 01/01/91
DYNAMICS OF DEFORMABLE BODIES JNIV OF CALIFORNIA	MARSDEN JERROLD	N	36	D 22/08/90 \$293,046	GLASSMAN 90-NM-417	\$0 / / \$0
COMBINATORIAL OPTIMIZATION PROBLEMS IN LOCATIONS AND LAYOUTS UNIV OF CALIFORNIA HAKIMI	S.	N	24	A 10/07/90 \$83,422	SJOGREN 90-NM-358	\$40,807 01/10/90
SPECTRAL ANALYSIS BASED ON THE CANONICAL AUTOREGRESSIVE DECOMPOSITION UNIV OF RHODE ISLAND KAY	STEVEN	N	36	25/07/90 \$164,911	JACOBS 90-NM-376	\$0 / / \$0
IMPLICIT DIFFERENTIAL EQUATIONS ARISING IN CONTROL PROBLEMS NORTH CAROLINA STATE UNIVERSITY CAMPBELL	STEVEN	N	24	21/08/90 \$114,743	GLASSMAN 90-NM-405	\$0 / / \$0
GRAPH OPTIMIZATION PROBLEMS IN COMPUTING NORTH CAROLINA STATE UNIVERSITY STALLMAN	MATTHIAS	N	36	29/08/90 \$167,716	GLASSMAN 90-NM-422	\$0 / / \$0
OPTIMIZATION PROBLEMS IN FUNCTION SPACES NORTH CAROLINA STATE UNIVERSITY KELLEY	L.					

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

PAGE 6

TITLE TITLE CONT. INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ADAPTIVE DYNAMICS FOR NEURAL COMPUTATION	FERNANDO PINEDA	N 12 22/08/90 \$70,500	A JACOBS 90-NM-414	\$70,500 01/12/90 \$70,500
JET PROPULSION LABORATORY		R 12 10/07/90 \$81,437	A NACHMAN 90-NM-361	\$81,437 01/11/90 \$81,437
THEORETICAL AERODYNAMICS	COLE			
RENSSLAER POLYTECHNIC INSTITUTE	JULIAN HADDAD	N 12 04/09/90 \$123,188	NACHMAN 90-NM-425	\$0 \$0 \$0
LOCALIZATION ON IMAGING RECORDS	ZIAD	R 21 30/07/90 \$339,974	SJOGREN 90-NM-381	\$0 \$0 \$0
LA JOLLA INSTITUTE		C.		
MULTIVARIATE ANALYSIS AND ITS APPLICATIONS	RAO			
PENNSYLVANIA STATE UNIVERSITY				
A RELIABLE COMMUNICATION SYSTEM FOR THE AIR FORCE	HARVASTI FAROKH	N 36 20/09/90 \$238,368	SJOGREN 90-NM-436	\$0 \$0 \$0
ILLINOIS INSTITUTE OF TECHNOLOGY		R 24 09/08/90 \$76,461	SJOGREN 90-NM-395	\$0 \$0 \$0
NONLOCAL METHODS FOR SIGNAL DETECTION AND ESTIMATION IN THE DEPENDENT NONSTATIONARY ENVIRONMENT	HALVERSON DON			
TEXAS A AND M RESEARCH FOUNDATION				
STABILITY OF DYNAMICAL SYSTEMS IN THE PRESENCE OF NOISE	PINSKY MARK	N 36 24/07/90 \$490,038	SJOGREN 90-NM-374	\$0 \$0 \$0
NORTHWESTERN UNIVERSITY				
ANALYTICAL/NUMERICAL INVESTIGATION OF COMBUSTION DYNAMICS, AND MODELING AND ANALYSIS OF NOISE EFFECTS IN DYNAMICAL SYSTEMS	BERNARD JERNARD	N 36 25/07/90 \$589,476	NACHMAN 90-NM-375	\$0 \$0 \$0
NORTHWESTERN UNIVERSITY				
AN INTEGRATED MODELING APPROACH FOR THE CELL FORMATION PROBLEM IN CELLULAR MANUFACTURING SYSTEMS	LOGENDRAN RASARATNAM	N 12 09/08/90 \$355,608	D GLASSMAN 90-NM-397	\$0 \$0 \$0
OREGON STATE UNIVERSITY				

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

TITLE TITLE CONT. INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT			STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
		N	20 09/08/90 \$65,534	D GLASSMAN 90-NM-398		
ECONOMIES OF PRODUCTION THROUGH DUPLICATING BOTTLENECK MACHINES AND SUBCONTRACTING BOTTLENECK PARTS IN CELLULAR MANUFACTURING LOGENDRAN OREGON STATE UNIVERSITY	RASARATNAM	R 24 30/07/90 \$108,982	SJOGREN 90-NM-382	/ / 30		
SERIES SYSTEM RELIABILITY DEMONSTRATION, ESTIMATING THE NUMBER OF DEFECTIVES, AND TURN-IN	SAUL	N 24 16/07/90 \$133,684	WAKSHAN 90-NM-368	/ / 30		
RETRIEVAL USING PLAUSIBLE INFERENCE	CROFT	N 36 08/08/90 \$161,732	MACHMAN 90-NM-394	/ / 30		
UNIV OF MASSACHUSETTS	Y.	N 36 20/09/90 \$263,195	JACOBS 90-NR-441	/ / 30		
NON-HOMOGENEOUS DEFORMATIONS IN NON-LINEARLY ELASTIC MATERIALS	K.	N 12 22/08/90 \$148,400	D MACHMAN 90-NM-419	/ / 30		
UNIV OF PITTSBURGH	RAJAGOPAL	N 06 21/08/90 \$47,150	SJOGREN 90-NM-410	/ / 30		
AUTOCRITERIA OPTIMAL SHAPE DESIGN	LIPTON	N 36 20/09/90 \$263,195	JACOBS 90-NR-441	/ / 30		
WORCESTER POLYTECHNIC INSTITUTE	ROBERT	N 12 22/08/90 \$148,400	D MACHMAN 90-NM-419	/ / 30		
A NEW CODE DEVELOPMENT ENABLING IMPROVED MATERIALS DESIGN FOR DOD APPLICATIONS	LOGAN	N 06 21/08/90 \$47,150	SJOGREN 90-NM-410	/ / 30		
APPLIED ENERGY SCIENCES INC	JOSEPH	N 36 21/08/90 \$418,690	MACHMAN 90-NM-409	/ / 30		
COMPUTING SCIENCE AND STATISTICS	KETTERRING	N 06 21/08/90 \$47,150	SJOGREN 90-NM-410	/ / 30		
SYMPONIUM ON THE INTERFACE	J. R.	N 36 21/08/90 \$418,690	MACHMAN 90-NM-409	/ / 30		
INTERFACE FOUNDATION OF NORTH AMERICA	HERBERT	N 36 21/08/90 \$418,690	MACHMAN 90-NM-409	/ / 30		
DIMENSION REDUCTION OF COUPLED DIFFERENTIAL EQUATION SYSTEMS BY NON-LINEAR TRANSFORMATIONS	RABITZ	N 36 21/08/90 \$418,690	MACHMAN 90-NM-409	/ / 30		
PRINCETON UNIVERSITY		N 36 21/08/90 \$418,690	MACHMAN 90-NM-409	/ / 30		
PARAMETRIC AND COMBINATORIAL PROBLEMS IN CONSTRAINED OPTIMIZATION	AUDREY	R 24 21/08/90 \$150,529	D GLASSMAN 90-NM-412	\$47,273 01/02/91 \$97,320		
COLORADO STATE UNIVERSITY	POORE	R 24 21/08/90 \$150,529	A GLASSMAN 90-NM-412			

PAGE 7

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

TITLE TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT		STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
		N	36 24 \$112,592		
NEW CUTTING PLANE	GOLDSTEIN	N	20/09/90 \$193,420	GLASSMAN 90-NM-437	/ / \$0
UNIV OF WASHINGTON	EMERITUS	N	09/08/90 \$193,420	GLASSMAN 90-NM-396	/ / \$0
INTEGER PROGRAMMING FORMULATION OF COMPOSITE LAMINATE DESIGN PROBLEMS VIRGINIA POLYTECHNIC INST & STATE UNIV	HAFTKA RAPHAEL	N	16/07/90 \$52,599	WAKSMAN 90-NM-366	/ / \$0
INDUCTIVE LEARNING OF DECISION RULES FROM ATTRIBUTE BASED EXAMPLES A GENETIC ALGORITHM APPROACH UNIV OF NORTH CAROLINA	ROALIN J.	R	22/03/90 \$55,182	A GLASSMAN 90-NM-418	\$41,700 01/12/90 \$41,000
METHODS AND CONVERGENCE ANALYSIS IN LARGE SCALE NONLINEAR OPTIMIZATION UNIV OF NORTH CAROLINA	TOLLE JON	R	06/08/90 \$187,562	A GLASSMAN 90-NM-388	\$59,460 01/02/91 \$170,308
LEAST SQUARES COMPUTATIONS IN SCIENCE AND ENGINEERING JAKE FOREST UNIVERSITY	PLEMmons ROBERT	N	21/08/90 \$55,399	GLASSMAN 90-NM-413	/ / \$0
OPTIMIZATION OF A MULTI-PRODUCT, MULTI-PERIOD DISTRIBUTION SYSTEM WITH FIXED COSTS CASE WESTERN RESERVE UNIVERSITY	SALKIN HARVEY	N	24/07/90 \$164,169	A NACHMAN 90-NM-373	\$31,916 01/02/91 \$64,169
CHAOS AND HOMOCLINIC ORBITS IN NEAR INTEGABLE PDES OHIO STATE UNIVERSITY	JVERMAN II EDWARD	N	25/07/90 \$138,205	D JACOBS 90-NM-380	/ / \$0
STABILIZATION AND CONTROL OF NONLINEAR PASSIVE SYSTEMS IN DISCRETE TIME WASHINGTON UNIVERSITY	SHASH SILJOY	N	20/09/90 \$269,988	WAKSMAN 90-NM-438	/ / \$0
VISUAL REASONING AND TASK STRUCTURES TWO IDEAS FOR NEXT GENERATION KNOWLEDGE SYSTEMS OHIO STATE UNIVERSITY	CHANDRASEKARAN 2.	N	24/09/90 \$269,988	WAKSMAN 90-NM-438	/ / \$0

PAGE 8

TITLE INSTITUTION	TITLE CONT.	INVESTIGATOR	EXPLORING SPECIAL STRUCTURE IN LARGE-SCALE OPTIMIZATION			INITIATE START DATE	TOT AMT
			TYPE / MONTHS RECEIVED	STATUS AMOUNT	PROGRAM MANAGER PROPOSAL #		
			N	12	A	899-819	\$99,819
			25/09/90		GLASSMAN	01/02/91	\$99,819

MULTIVARIATE OUTPUT ANALYSIS OF DISCRETE-EVENT SIMULATIONS USING THE KALMAN FILTER

AIR FORCE INSTITUTE OF TECHNOLOGY

JAUER

THE DESIGN OF ROBUSTLY PERFORMING SYSTEMS UNDER PARAMETRIC
UNCERTAINTY/VARIATION
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
VALAVANI

FUNDAMENTAL LIMITATIONS AND CAPABILITIES OF ROBUST IDENTIFICATION
AND ADAPTIVE CONTROL
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
DAHLEH

**THEORY AND METHODS FOR SOLVING LINEAR PROGRAMMING PROBLEMS BASED
ON INTERIOR-POINTS AND CENTERING**
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
FREUND

NEW DIRECTIONS IN NETWORK FLOWS
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SECOND INTERNATIONAL CONFERENCE ON
MATHEMATICS
SOCIETY FOR INDUSTRIAL & APPLIED

MATHEMATICAL PROBLEMS OF NONLINEAR WAVE PROPAGATION AND OF WAVES
IN HETEROGENEOUS MEDIA
STANFORD UNIVERSITY
KELLER

SOLVING LINEAR PROGRAMS UNDER UNCERTAINTY, USING DECOMPOSITION,
IMPORTANCE SAMPLING, AND PARALLEL PROCESSORS
STANFORD UNIVERSITY DANTZIG

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

TITLE	TITLE CONTR. INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT			STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
			N	36	08/08/90 \$330,414		
STOCHASTIC CONTROL AND TOPICS IN APPLIED PROBABILITY	KARATZAS	IOANNIS	N	36	21/08/90 \$469,588	GLASSMAN 90-NM-406	/ / \$0
ALGORITHMS FOR LINEAR AND NONLINEAR PROGRAMMING	MURRAY	WALTER	N	36	10/09/90 \$312,712	WAKSMAN 90-NM-428	/ / \$0
RESEARCH ON TELEO-REACTIVE AGENTS	NILSSON	NILS	R	12	05/07/90 \$93,743	GLASSMAN 90-NM-354	/ / \$0
COMMUNICATION IN THE PRESENCE OF SEVERE NOISE	MCELIECE	ROBERT	A				\$93,010 01/10/90 \$93,743
CALIFORNIA INSTITUTE OF TECHNOLOGY	CHANDY	K.	N	36	30/07/90 \$375,243	HOLLAND 90-NM-395	\$124,243 01/11/90 \$375,243
PROGRAM COMPOSITION	Texas A and M UNIVERSITY	WILLIAM	N	09	05/07/90 \$22,000	NACHMAN 90-NM-353	\$8,000 01/01/91 \$8,000
CONFERENCE ON INVERSE PROBLEMS IN DIFFERENTIAL EQUATIONS COMPUTATIONAL ALGORITHMS	FRANCIS NAROWICH		N	36	04/09/90 \$136,442	NACHMAN 90-NM-426	/ / \$0
APPLICATIONS OF RADIAL BASIS FUNCTIONS FITTING SCATTERED DATA IN HIGHER DIMENSIONS AND COLLOCATION METHODS FOR PARTIAL DIFF. EQUAT.							

PAGE 10

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 70 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCES

TITLE INSTITUTION		TITLE CONT. INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	PAGE 1
NONLINEAR OPTICS IN NOVEL COMPOSITE MEDIA JROWN UNIVERSITY	LAWANDY N.			N 36 13/08/90 \$606,491	A SCHLOSSBER 90-NP-130	\$165,000 01/12/90 \$495,000	
OPTICAL FIBER LASER CHARACTERIZATION EQUIPMENT JROWN UNIVERSITY	MORSE T.			N 12 17/08/90 \$42,575	SCHLOSSBER 90-NP-132	\$0 / / \$0	
MOLECULAR INTERACTIONS AND PROPERTIES WITH MANY-BODY METHODS UNIV OF FLORIDA	RODNEY BARTLETT			R 12 20/08/90 \$156,059	A KELLEY 90-NP-133	\$136,059 01/12/90 \$126,059	
CALCULATION AND HALF COLLISION ANALYSIS OF STATE-TO-STATE CROSS SECTIONS IN ATOMIC COLLISIONS NATIONAL INST. OF STANDARDS & TECHNOLOGY	PAUL JULIENNE			N 12 13/09/90 \$116,000	A KELLEY 90-NP-136	\$116,000 01/13/90 \$116,000	
ZON CLUSTERS AND EXOTIC PLASMA STATES STEVENS INSTITUTE OF TECHNOLOGY	NARDI VITTORIO			N 12 06/07/90 \$139,822	A BARKER 90-NP-120	\$139,822 01/02/91 \$139,822	
THEORETICAL AND STM STUDIES OF THE ELECTRONIC STRUCTURE OF METAL/SEMICONDUCTOR/HYDROGEN SYSTEMS STEVENS INSTITUTE OF TECHNOLOGY	WALTER ERMLER			R 12 17/07/90 \$56,029	LUPO 90-NP-123	\$0 / / \$0	
MICROWAVE INTERACTION WITH CLOAKING-PLASMA EFFORT MISSION RESEARCH CORP	U. MICHAEL BOLLEN			N 12 19/07/90 \$120,302	PARKER 90-NP-124	\$0 / / \$0	
COMPACT MILLIMETER WAVE DEVICES VOLTAGE CARB, SLOW WAVE CRM AND HIGH HARMONIC GYROTRON UNIV OF CALIFORNIA	HIGH LUHMANN, JR. NEVILLE			R 12 03/07/90 \$100,000	A BARKER 90-NP-119	\$100,000 01/12/90 \$100,000	
ANOMALOUS ABSORPTION OF ELECTROMAGNETIC RADIATION NAVAL RESEARCH LABORATORY	HARVEY ROWLAND			N 24 16/08/90 \$165,500	A BARKER 90-NP-131	\$0 / / \$0	

REPORT DATE 10/26/93

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCES

PAGE 2

TITLE INSTITUTION	TITLE, CONT. INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT			STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
		Y	M	WEEKLY AMOUNT		
EXPERIMENTS WITH TRAPPED NEUTRAL ATOMS OFFICE OF NAVAL RESEARCH	REYNOLDS PETER	N	12	\$66,000	A KELLEY 90-NP-137	\$66,000 01/10/90
HIGH ENERGY DENSE RISON TEAMS AND HIGH POWER GYROTRONS AT 4 MILLIMETER WAVELENGTHS UNIV OF CINCINNATI	FERENDEC ALTAN	N	24	\$113,399	BARKER 90-NP-126	\$100,288 01/11/90
BACKWARD WAVE OSCILLATOR INVESTIGATIONS IN THE RAMAN REGIME UNIV OF NEW MEXICO	JCHAMILGLU EDL	R	12	\$100,289	A BARKER 90-NP-127	\$100,288 01/11/90
THEORETICAL INVESTIGATIONS OF TIME-DEPENDENT BEHAVIOR OF ELECTRON SWARMS IN GASES DAVIE STATE UNIVERSITY	JOGINDRA JADEHRA	N	36	\$213,284	LUPO 90-NP-128	\$100,288 01/11/90
STUDY OF ADVANCED APPLICATIONS OF WAVE-PARTICLE INTERACTION TEXAS TECH UNIVERSITY	ISHIHARA OSAMU	N	36	\$242,808	BARKER 90-NP-121	\$100,288 01/11/90
SEBEACONS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	COUNSELMAN CHARLES	N	36	\$558,493	PERRIZO 90-NP-125	\$100,288 01/11/90
CRUSTAL DEFORMATION MEASUREMENTS IN THE VICINITY OF VANDENBERG AIR FORCE BASE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	KING ROBERT	R	12	\$10,570	PERRIZO 90-NP-135	\$100,288 01/11/90
IONLINEAR WAVE-PARTICLE INTERACTION IN THE SOLAR WIND PLASMA. THE MAGNETOSPHERE, AND THE IONOSPHERE OLYTECHNIC INSTITUTE OF NEW YORK	KUO SPENCER	N	36	\$128,398	D RADOSKI 90-NP-122	\$100,288 01/11/90
OPTICAL, ELECTRONIC AND OPTOELECTRIC MATERIAL AND DEVICE RESEARCH CALIFORNIA INSTITUTE OF TECHNOLOGY	YARIV AMNON	N	36	\$1,208,561.	A SCHLOSSBER 90-NP-129	\$100,288 01/10/90

REPORT DATE 10/24/90

PROPOSAL STATUS REPORT 1 JUL 90 - 30 SEP 90
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCES

PAGE 3

TITLE
TITLE CONT.
INSTITUTION
NOVEL METHODS OF ACCELERATION
CORNELL UNIVERSITY

INVESTIGATOR
NATION
JOHN

TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
2 27/09/90 \$200,300	A BARKER 90-NP-134	\$200,000 01/02/91 \$200,000